

Global Rectangular Duct Impedance-Type Composite Silencer Market Growth 2026-2032

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Abstracts

The global Rectangular Duct Impedance-Type Composite Silencer market size is predicted to grow from US\$ 118 million in 2025 to US\$ 163 million in 2032; it is expected to grow at a CAGR of 4.7% from 2026 to 2032.

The rectangular duct impedance-type composite silencer is a noise-reduction device installed within rectangular ventilation ducts; it combines the resistive noise attenuation provided by sound-absorbing materials with the reactive attenuation achieved through cavity resonance to effectively reduce broadband noise.

The upstream supply chain involves materials such as galvanized steel sheets, stainless steel sheets, perforated plates, glass wool, rock wool, sealing components, and flame-retardant materials, as well as sheet metal processing equipment. The downstream market targets the HVAC, industrial ventilation, and construction engineering sectors.

Globally, the average unit price for rectangular duct impedance-type composite silencers stands at approximately US\$610 per unit. Global sales volume is estimated at around 197,800 units, with an annual production capacity ranging from 250,000 to 350,000 units, and an industry profit margin of approximately 22%.

The global market for rectangular duct impedance-type composite silencers is poised for continued growth, driven by increasingly stringent requirements for acoustic environments in buildings, intensified efforts in industrial noise control, and ongoing energy-efficiency upgrades in HVAC systems. Compared to standard resistive silencers, this product category offers a balanced capability for both mid-to-high-frequency sound absorption and low-frequency noise attenuation, making it particularly

well-suited for complex noise environments such as fan rooms, air conditioning units, data centers, hospitals, rail transit facilities, and industrial plants. Future product development will trend toward lower airflow resistance, higher noise attenuation performance, enhanced fire resistance and flame retardancy, improved corrosion resistance, and greater modularity and customization capabilities. Furthermore, advancements will focus on optimizing the structure of attenuation baffles, airflow channels, and composite sound-absorbing materials to minimize system pressure loss and operational energy consumption. The rising demand for green buildings, stricter occupational health standards, and advanced clean ventilation systems will also drive the expanded application of these silencers in high-end public buildings and industrial noise-reduction projects.

LP Information, Inc. (LPI) ' newest research report, the "Rectangular Duct Impedance-Type Composite Silencer Industry Forecast" looks at past sales and reviews total world Rectangular Duct Impedance-Type Composite Silencer sales in 2025, providing a comprehensive analysis by region and market sector of projected Rectangular Duct Impedance-Type Composite Silencer sales for 2026 through 2032. With Rectangular Duct Impedance-Type Composite Silencer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Rectangular Duct Impedance-Type Composite Silencer industry.

This Insight Report provides a comprehensive analysis of the global Rectangular Duct Impedance-Type Composite Silencer landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Rectangular Duct Impedance-Type Composite Silencer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Rectangular Duct Impedance-Type Composite Silencer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Rectangular Duct Impedance-Type Composite Silencer and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Rectangular Duct Impedance-Type Composite Silencer.

This report presents a comprehensive overview, market shares, and growth

opportunities of Rectangular Duct Impedance-Type Composite Silencer market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Resistive-Dominant Composite Silencer

Reactive-Dominant Composite Silencer

Resonance-Absorption Composite Silencer

Micro-Perforated Composite Silencer

Segmentation by Structure Type:

Rectangular Splitter Composite Silencer

Rectangular Baffle Composite Silencer

Rectangular Chamber Composite Silencer

Rectangular Lined Duct Composite Silencer

Rectangular Plenum Composite Silencer

Segmentation by Airflow Path:

Straight-Through Rectangular Composite Silencer

Elbow Rectangular Composite Silencer

Offset Rectangular Composite Silencer

Multi-Channel Rectangular Composite Silencer

Low-Resistance Rectangular Composite Silencer

Segmentation by Application:

Commercial Building

Hospital

Data Center

Industrial

Metro and Rail Transit

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

TROX

Lindab

Systemair

Swegon

Fl?ktGroup

Price Industries

Greenheck

Ruskin

Kinetics Noise Control

Vibro-Acoustics

IAC Acoustics

Nailor

Aldes

France Air

Sasakura AE

Tylon

CATJC Taj Kee

GRAD Group

Shinelong

Halton

Xingheng Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global Rectangular Duct Impedance-Type Composite Silencer market?

What factors are driving Rectangular Duct Impedance-Type Composite Silencer market

growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Rectangular Duct Impedance-Type Composite Silencer market opportunities vary by end market size?

How does Rectangular Duct Impedance-Type Composite Silencer break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

2.1.1 Global Rectangular Duct Impedance-Type Composite Silencer Annual Sales 2021-2032

2.1.2 World Current & Future Analysis for Rectangular Duct Impedance-Type Composite Silencer by Geographic Region, 2021, 2025 & 2032

2.1.3 World Current & Future Analysis for Rectangular Duct Impedance-Type Composite Silencer by Country/Region, 2021, 2025 & 2032

2.2 Rectangular Duct Impedance-Type Composite Silencer Segment by Type

2.2.1 Resistive-Dominant Composite Silencer

2.2.2 Reactive-Dominant Composite Silencer

2.2.3 Resonance-Absorption Composite Silencer

2.2.4 Micro-Perforated Composite Silencer

2.2.5 Rectangular Duct Impedance-Type Composite Silencer Sales by Type

2.2.5.1 Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Type (2021-2026)

2.2.5.2 Global Rectangular Duct Impedance-Type Composite Silencer Revenue and Market Share by Type (2021-2026)

2.2.5.3 Global Rectangular Duct Impedance-Type Composite Silencer Sale Price by Type (2021-2026)

2.3 Rectangular Duct Impedance-Type Composite Silencer Segment by Structure Type

2.3.1 Rectangular Splitter Composite Silencer

2.3.2 Rectangular Baffle Composite Silencer

2.3.3 Rectangular Chamber Composite Silencer

2.3.4 Rectangular Lined Duct Composite Silencer

2.3.5 Rectangular Plenum Composite Silencer

2.3.6 Rectangular Duct Impedance-Type Composite Silencer Sales by Structure Type

2.3.6.1 Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Structure Type (2021-2026)

2.3.6.2 Global Rectangular Duct Impedance-Type Composite Silencer Revenue and Market Share by Structure Type (2021-2026)

2.3.6.3 Global Rectangular Duct Impedance-Type Composite Silencer Sale Price by Structure Type (2021-2026)

2.4 Rectangular Duct Impedance-Type Composite Silencer Segment by Airflow Path

2.4.1 Straight-Through Rectangular Composite Silencer

2.4.2 Elbow Rectangular Composite Silencer

2.4.3 Offset Rectangular Composite Silencer

2.4.4 Multi-Channel Rectangular Composite Silencer

2.4.5 Low-Resistance Rectangular Composite Silencer

2.4.6 Rectangular Duct Impedance-Type Composite Silencer Sales by Airflow Path

2.4.6.1 Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Airflow Path (2021-2026)

2.4.6.2 Global Rectangular Duct Impedance-Type Composite Silencer Revenue and Market Share by Airflow Path (2021-2026)

2.4.6.3 Global Rectangular Duct Impedance-Type Composite Silencer Sale Price by Airflow Path (2021-2026)

2.5 Rectangular Duct Impedance-Type Composite Silencer Segment by Application

2.5.1 Commercial Building

2.5.2 Hospital

2.5.3 Data Center

2.5.4 Industrial

2.5.5 Metro and Rail Transit

2.5.6 Others

2.5.7 Rectangular Duct Impedance-Type Composite Silencer Sales by Application

2.5.7.1 Global Rectangular Duct Impedance-Type Composite Silencer Sale Market Share by Application (2021-2026)

2.5.7.2 Global Rectangular Duct Impedance-Type Composite Silencer Revenue and Market Share by Application (2021-2026)

2.5.7.3 Global Rectangular Duct Impedance-Type Composite Silencer Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Rectangular Duct Impedance-Type Composite Silencer Breakdown Data by

Company

3.1.1 Global Rectangular Duct Impedance-Type Composite Silencer Annual Sales by Company (2021-2026)

3.1.2 Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Company (2021-2026)

3.2 Global Rectangular Duct Impedance-Type Composite Silencer Annual Revenue by Company (2021-2026)

3.2.1 Global Rectangular Duct Impedance-Type Composite Silencer Revenue by Company (2021-2026)

3.2.2 Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Company (2021-2026)

3.3 Global Rectangular Duct Impedance-Type Composite Silencer Sale Price by Company

3.4 Key Manufacturers Rectangular Duct Impedance-Type Composite Silencer Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Rectangular Duct Impedance-Type Composite Silencer Product Location Distribution

3.4.2 Players Rectangular Duct Impedance-Type Composite Silencer Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR RECTANGULAR DUCT IMPEDANCE-TYPE COMPOSITE SILENCER BY GEOGRAPHIC REGION

4.1 World Historic Rectangular Duct Impedance-Type Composite Silencer Market Size by Geographic Region (2021-2026)

4.1.1 Global Rectangular Duct Impedance-Type Composite Silencer Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Rectangular Duct Impedance-Type Composite Silencer Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Rectangular Duct Impedance-Type Composite Silencer Market Size by Country/Region (2021-2026)

4.2.1 Global Rectangular Duct Impedance-Type Composite Silencer Annual Sales by Country/Region (2021-2026)

4.2.2 Global Rectangular Duct Impedance-Type Composite Silencer Annual Revenue by Country/Region (2021-2026)

- 4.3 Americas Rectangular Duct Impedance-Type Composite Silencer Sales Growth
- 4.4 APAC Rectangular Duct Impedance-Type Composite Silencer Sales Growth
- 4.5 Europe Rectangular Duct Impedance-Type Composite Silencer Sales Growth
- 4.6 Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Sales Growth

5 AMERICAS

- 5.1 Americas Rectangular Duct Impedance-Type Composite Silencer Sales by Country
 - 5.1.1 Americas Rectangular Duct Impedance-Type Composite Silencer Sales by Country (2021-2026)
 - 5.1.2 Americas Rectangular Duct Impedance-Type Composite Silencer Revenue by Country (2021-2026)
- 5.2 Americas Rectangular Duct Impedance-Type Composite Silencer Sales by Type (2021-2026)
- 5.3 Americas Rectangular Duct Impedance-Type Composite Silencer Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Rectangular Duct Impedance-Type Composite Silencer Sales by Region
 - 6.1.1 APAC Rectangular Duct Impedance-Type Composite Silencer Sales by Region (2021-2026)
 - 6.1.2 APAC Rectangular Duct Impedance-Type Composite Silencer Revenue by Region (2021-2026)
- 6.2 APAC Rectangular Duct Impedance-Type Composite Silencer Sales by Type (2021-2026)
- 6.3 APAC Rectangular Duct Impedance-Type Composite Silencer Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Rectangular Duct Impedance-Type Composite Silencer by Country

7.1.1 Europe Rectangular Duct Impedance-Type Composite Silencer Sales by Country (2021-2026)

7.1.2 Europe Rectangular Duct Impedance-Type Composite Silencer Revenue by Country (2021-2026)

7.2 Europe Rectangular Duct Impedance-Type Composite Silencer Sales by Type (2021-2026)

7.3 Europe Rectangular Duct Impedance-Type Composite Silencer Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer by Country

8.1.1 Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Sales by Country (2021-2026)

8.1.2 Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Revenue by Country (2021-2026)

8.2 Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Sales by Type (2021-2026)

8.3 Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Rectangular Duct Impedance-Type Composite Silencer
- 10.3 Manufacturing Process Analysis of Rectangular Duct Impedance-Type Composite Silencer
- 10.4 Industry Chain Structure of Rectangular Duct Impedance-Type Composite Silencer

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Rectangular Duct Impedance-Type Composite Silencer Distributors
- 11.3 Rectangular Duct Impedance-Type Composite Silencer Customer

12 WORLD FORECAST REVIEW FOR RECTANGULAR DUCT IMPEDANCE-TYPE COMPOSITE SILENCER BY GEOGRAPHIC REGION

- 12.1 Global Rectangular Duct Impedance-Type Composite Silencer Market Size Forecast by Region
 - 12.1.1 Global Rectangular Duct Impedance-Type Composite Silencer Forecast by Region (2027-2032)
 - 12.1.2 Global Rectangular Duct Impedance-Type Composite Silencer Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Rectangular Duct Impedance-Type Composite Silencer Forecast by Type (2027-2032)
- 12.7 Global Rectangular Duct Impedance-Type Composite Silencer Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 TROX

13.1.1 TROX Company Information

13.1.2 TROX Rectangular Duct Impedance-Type Composite Silencer Product

Portfolios and Specifications

13.1.3 TROX Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 TROX Main Business Overview

13.1.5 TROX Latest Developments

13.2 Lindab

13.2.1 Lindab Company Information

13.2.2 Lindab Rectangular Duct Impedance-Type Composite Silencer Product

Portfolios and Specifications

13.2.3 Lindab Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Lindab Main Business Overview

13.2.5 Lindab Latest Developments

13.3 Systemair

13.3.1 Systemair Company Information

13.3.2 Systemair Rectangular Duct Impedance-Type Composite Silencer Product

Portfolios and Specifications

13.3.3 Systemair Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Systemair Main Business Overview

13.3.5 Systemair Latest Developments

13.4 Swegon

13.4.1 Swegon Company Information

13.4.2 Swegon Rectangular Duct Impedance-Type Composite Silencer Product

Portfolios and Specifications

13.4.3 Swegon Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Swegon Main Business Overview

13.4.5 Swegon Latest Developments

13.5 Fl?ktGroup

13.5.1 Fl?ktGroup Company Information

13.5.2 Fl?ktGroup Rectangular Duct Impedance-Type Composite Silencer Product

Portfolios and Specifications

13.5.3 Fl?ktGroup Rectangular Duct Impedance-Type Composite Silencer Sales,

Revenue, Price and Gross Margin (2021-2026)

13.5.4 Fl?ktGroup Main Business Overview

13.5.5 Fl?ktGroup Latest Developments

13.6 Price Industries

13.6.1 Price Industries Company Information

13.6.2 Price Industries Rectangular Duct Impedance-Type Composite Silencer Product

Portfolios and Specifications

13.6.3 Price Industries Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Price Industries Main Business Overview

13.6.5 Price Industries Latest Developments

13.7 Greenheck

13.7.1 Greenheck Company Information

13.7.2 Greenheck Rectangular Duct Impedance-Type Composite Silencer Product

Portfolios and Specifications

13.7.3 Greenheck Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Greenheck Main Business Overview

13.7.5 Greenheck Latest Developments

13.8 Ruskin

13.8.1 Ruskin Company Information

13.8.2 Ruskin Rectangular Duct Impedance-Type Composite Silencer Product

Portfolios and Specifications

13.8.3 Ruskin Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Ruskin Main Business Overview

13.8.5 Ruskin Latest Developments

13.9 Kinetics Noise Control

13.9.1 Kinetics Noise Control Company Information

13.9.2 Kinetics Noise Control Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

13.9.3 Kinetics Noise Control Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Kinetics Noise Control Main Business Overview

13.9.5 Kinetics Noise Control Latest Developments

13.10 Vibro-Acoustics

13.10.1 Vibro-Acoustics Company Information

13.10.2 Vibro-Acoustics Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

13.10.3 Vibro-Acoustics Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Vibro-Acoustics Main Business Overview

13.10.5 Vibro-Acoustics Latest Developments

13.11 IAC Acoustics

13.11.1 IAC Acoustics Company Information

13.11.2 IAC Acoustics Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

13.11.3 IAC Acoustics Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 IAC Acoustics Main Business Overview

13.11.5 IAC Acoustics Latest Developments

13.12 Nailor

13.12.1 Nailor Company Information

13.12.2 Nailor Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

13.12.3 Nailor Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Nailor Main Business Overview

13.12.5 Nailor Latest Developments

13.13 Aldes

13.13.1 Aldes Company Information

13.13.2 Aldes Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

13.13.3 Aldes Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Aldes Main Business Overview

13.13.5 Aldes Latest Developments

13.14 France Air

13.14.1 France Air Company Information

13.14.2 France Air Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

13.14.3 France Air Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 France Air Main Business Overview

13.14.5 France Air Latest Developments

13.15 Sasakura AE

13.15.1 Sasakura AE Company Information

13.15.2 Sasakura AE Rectangular Duct Impedance-Type Composite Silencer Product

Portfolios and Specifications

13.15.3 Sasakura AE Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Sasakura AE Main Business Overview

13.15.5 Sasakura AE Latest Developments

13.16 Tylon

13.16.1 Tylon Company Information

13.16.2 Tylon Rectangular Duct Impedance-Type Composite Silencer Product

Portfolios and Specifications

13.16.3 Tylon Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 Tylon Main Business Overview

13.16.5 Tylon Latest Developments

13.17 CATJC Taj Kee

13.17.1 CATJC Taj Kee Company Information

13.17.2 CATJC Taj Kee Rectangular Duct Impedance-Type Composite Silencer

Product Portfolios and Specifications

13.17.3 CATJC Taj Kee Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 CATJC Taj Kee Main Business Overview

13.17.5 CATJC Taj Kee Latest Developments

13.18 GRAD Group

13.18.1 GRAD Group Company Information

13.18.2 GRAD Group Rectangular Duct Impedance-Type Composite Silencer Product

Portfolios and Specifications

13.18.3 GRAD Group Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 GRAD Group Main Business Overview

13.18.5 GRAD Group Latest Developments

13.19 Shinelong

13.19.1 Shinelong Company Information

13.19.2 Shinelong Rectangular Duct Impedance-Type Composite Silencer Product

Portfolios and Specifications

13.19.3 Shinelong Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 Shinelong Main Business Overview

13.19.5 Shinelong Latest Developments

13.20 Halton

13.20.1 Halton Company Information

13.20.2 Halton Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

13.20.3 Halton Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 Halton Main Business Overview

13.20.5 Halton Latest Developments

13.21 Xingheng Group

13.21.1 Xingheng Group Company Information

13.21.2 Xingheng Group Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

13.21.3 Xingheng Group Rectangular Duct Impedance-Type Composite Silencer Sales, Revenue, Price and Gross Margin (2021-2026)

13.21.4 Xingheng Group Main Business Overview

13.21.5 Xingheng Group Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Rectangular Duct Impedance-Type Composite Silencer Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Rectangular Duct Impedance-Type Composite Silencer Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Resistive-Dominant Composite Silencer

Table 4. Major Players of Reactive-Dominant Composite Silencer

Table 5. Major Players of Resonance-Absorption Composite Silencer

Table 6. Major Players of Micro-Perforated Composite Silencer

Table 7. Global Rectangular Duct Impedance-Type Composite Silencer Sales by Type (2021-2026) & (Units)

Table 8. Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Type (2021-2026)

Table 9. Global Rectangular Duct Impedance-Type Composite Silencer Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Type (2021-2026)

Table 11. Global Rectangular Duct Impedance-Type Composite Silencer Sale Price by Type (2021-2026) & (US\$/Unit)

Table 12. Major Players of Rectangular Splitter Composite Silencer

Table 13. Major Players of Rectangular Baffle Composite Silencer

Table 14. Major Players of Rectangular Chamber Composite Silencer

Table 15. Major Players of Rectangular Lined Duct Composite Silencer

Table 16. Major Players of Rectangular Plenum Composite Silencer

Table 17. Global Rectangular Duct Impedance-Type Composite Silencer Sales by Structure Type (2021-2026) & (Units)

Table 18. Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Structure Type (2021-2026)

Table 19. Global Rectangular Duct Impedance-Type Composite Silencer Revenue by Structure Type (2021-2026) & (\$ million)

Table 20. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Structure Type (2021-2026)

Table 21. Global Rectangular Duct Impedance-Type Composite Silencer Sale Price by Structure Type (2021-2026) & (US\$/Unit)

Table 22. Major Players of Straight-Through Rectangular Composite Silencer

Table 23. Major Players of Elbow Rectangular Composite Silencer

Table 24. Major Players of Offset Rectangular Composite Silencer
Table 25. Major Players of Multi-Channel Rectangular Composite Silencer
Table 26. Major Players of Low-Resistance Rectangular Composite Silencer
Table 27. Global Rectangular Duct Impedance-Type Composite Silencer Sales by Airflow Path (2021-2026) & (Units)
Table 28. Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Airflow Path (2021-2026)
Table 29. Global Rectangular Duct Impedance-Type Composite Silencer Revenue by Airflow Path (2021-2026) & (\$ million)
Table 30. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Airflow Path (2021-2026)
Table 31. Global Rectangular Duct Impedance-Type Composite Silencer Sale Price by Airflow Path (2021-2026) & (US\$/Unit)
Table 32. Global Rectangular Duct Impedance-Type Composite Silencer Sale by Application (2021-2026) & (Units)
Table 33. Global Rectangular Duct Impedance-Type Composite Silencer Sale Market Share by Application (2021-2026)
Table 34. Global Rectangular Duct Impedance-Type Composite Silencer Revenue by Application (2021-2026) & (\$ million)
Table 35. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Application (2021-2026)
Table 36. Global Rectangular Duct Impedance-Type Composite Silencer Sale Price by Application (2021-2026) & (US\$/Unit)
Table 37. Global Rectangular Duct Impedance-Type Composite Silencer Sales by Company (2021-2026) & (Units)
Table 38. Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Company (2021-2026)
Table 39. Global Rectangular Duct Impedance-Type Composite Silencer Revenue by Company (2021-2026) & (\$ millions)
Table 40. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Company (2021-2026)
Table 41. Global Rectangular Duct Impedance-Type Composite Silencer Sale Price by Company (2021-2026) & (US\$/Unit)
Table 42. Key Manufacturers Rectangular Duct Impedance-Type Composite Silencer Producing Area Distribution and Sales Area
Table 43. Players Rectangular Duct Impedance-Type Composite Silencer Products Offered
Table 44. Rectangular Duct Impedance-Type Composite Silencer Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 45. New Products and Potential Entrants

Table 46. Market M&A Activity & Strategy

Table 47. Global Rectangular Duct Impedance-Type Composite Silencer Sales by Geographic Region (2021-2026) & (Units)

Table 48. Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share Geographic Region (2021-2026)

Table 49. Global Rectangular Duct Impedance-Type Composite Silencer Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 50. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Geographic Region (2021-2026)

Table 51. Global Rectangular Duct Impedance-Type Composite Silencer Sales by Country/Region (2021-2026) & (Units)

Table 52. Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Country/Region (2021-2026)

Table 53. Global Rectangular Duct Impedance-Type Composite Silencer Revenue by Country/Region (2021-2026) & (\$ millions)

Table 54. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Country/Region (2021-2026)

Table 55. Americas Rectangular Duct Impedance-Type Composite Silencer Sales by Country (2021-2026) & (Units)

Table 56. Americas Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Country (2021-2026)

Table 57. Americas Rectangular Duct Impedance-Type Composite Silencer Revenue by Country (2021-2026) & (\$ millions)

Table 58. Americas Rectangular Duct Impedance-Type Composite Silencer Sales by Type (2021-2026) & (Units)

Table 59. Americas Rectangular Duct Impedance-Type Composite Silencer Sales by Application (2021-2026) & (Units)

Table 60. APAC Rectangular Duct Impedance-Type Composite Silencer Sales by Region (2021-2026) & (Units)

Table 61. APAC Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Region (2021-2026)

Table 62. APAC Rectangular Duct Impedance-Type Composite Silencer Revenue by Region (2021-2026) & (\$ millions)

Table 63. APAC Rectangular Duct Impedance-Type Composite Silencer Sales by Type (2021-2026) & (Units)

Table 64. APAC Rectangular Duct Impedance-Type Composite Silencer Sales by Application (2021-2026) & (Units)

Table 65. Europe Rectangular Duct Impedance-Type Composite Silencer Sales by

Country (2021-2026) & (Units)

Table 66. Europe Rectangular Duct Impedance-Type Composite Silencer Revenue by Country (2021-2026) & (\$ millions)

Table 67. Europe Rectangular Duct Impedance-Type Composite Silencer Sales by Type (2021-2026) & (Units)

Table 68. Europe Rectangular Duct Impedance-Type Composite Silencer Sales by Application (2021-2026) & (Units)

Table 69. Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Sales by Country (2021-2026) & (Units)

Table 70. Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Country (2021-2026)

Table 71. Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Sales by Type (2021-2026) & (Units)

Table 72. Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Sales by Application (2021-2026) & (Units)

Table 73. Key Market Drivers & Growth Opportunities of Rectangular Duct Impedance-Type Composite Silencer

Table 74. Key Market Challenges & Risks of Rectangular Duct Impedance-Type Composite Silencer

Table 75. Key Industry Trends of Rectangular Duct Impedance-Type Composite Silencer

Table 76. Rectangular Duct Impedance-Type Composite Silencer Raw Material

Table 77. Key Suppliers of Raw Materials

Table 78. Rectangular Duct Impedance-Type Composite Silencer Distributors List

Table 79. Rectangular Duct Impedance-Type Composite Silencer Customer List

Table 80. Global Rectangular Duct Impedance-Type Composite Silencer Sales Forecast by Region (2027-2032) & (Units)

Table 81. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 82. Americas Rectangular Duct Impedance-Type Composite Silencer Sales Forecast by Country (2027-2032) & (Units)

Table 83. Americas Rectangular Duct Impedance-Type Composite Silencer Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. APAC Rectangular Duct Impedance-Type Composite Silencer Sales Forecast by Region (2027-2032) & (Units)

Table 85. APAC Rectangular Duct Impedance-Type Composite Silencer Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 86. Europe Rectangular Duct Impedance-Type Composite Silencer Sales Forecast by Country (2027-2032) & (Units)

Table 87. Europe Rectangular Duct Impedance-Type Composite Silencer Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 88. Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Sales Forecast by Country (2027-2032) & (Units)

Table 89. Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 90. Global Rectangular Duct Impedance-Type Composite Silencer Sales Forecast by Type (2027-2032) & (Units)

Table 91. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 92. Global Rectangular Duct Impedance-Type Composite Silencer Sales Forecast by Application (2027-2032) & (Units)

Table 93. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 94. TROX Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 95. TROX Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 96. TROX Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. TROX Main Business

Table 98. TROX Latest Developments

Table 99. Lindab Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 100. Lindab Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 101. Lindab Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. Lindab Main Business

Table 103. Lindab Latest Developments

Table 104. Systemair Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 105. Systemair Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 106. Systemair Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. Systemair Main Business

Table 108. Systemair Latest Developments

Table 109. Swegon Basic Information, Rectangular Duct Impedance-Type Composite

Silencer Manufacturing Base, Sales Area and Its Competitors

Table 110. Swegon Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 111. Swegon Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. Swegon Main Business

Table 113. Swegon Latest Developments

Table 114. FI?ktGroup Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 115. FI?ktGroup Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 116. FI?ktGroup Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. FI?ktGroup Main Business

Table 118. FI?ktGroup Latest Developments

Table 119. Price Industries Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 120. Price Industries Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 121. Price Industries Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Price Industries Main Business

Table 123. Price Industries Latest Developments

Table 124. Greenheck Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 125. Greenheck Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 126. Greenheck Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Greenheck Main Business

Table 128. Greenheck Latest Developments

Table 129. Ruskin Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 130. Ruskin Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 131. Ruskin Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. Ruskin Main Business

Table 133. Ruskin Latest Developments

Table 134. Kinetics Noise Control Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 135. Kinetics Noise Control Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 136. Kinetics Noise Control Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 137. Kinetics Noise Control Main Business

Table 138. Kinetics Noise Control Latest Developments

Table 139. Vibro-Acoustics Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 140. Vibro-Acoustics Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 141. Vibro-Acoustics Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 142. Vibro-Acoustics Main Business

Table 143. Vibro-Acoustics Latest Developments

Table 144. IAC Acoustics Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 145. IAC Acoustics Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 146. IAC Acoustics Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 147. IAC Acoustics Main Business

Table 148. IAC Acoustics Latest Developments

Table 149. Nailor Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 150. Nailor Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 151. Nailor Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 152. Nailor Main Business

Table 153. Nailor Latest Developments

Table 154. Aldes Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 155. Aldes Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 156. Aldes Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 157. Aldes Main Business

Table 158. Aldes Latest Developments

Table 159. France Air Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 160. France Air Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 161. France Air Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 162. France Air Main Business

Table 163. France Air Latest Developments

Table 164. Sasakura AE Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 165. Sasakura AE Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 166. Sasakura AE Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 167. Sasakura AE Main Business

Table 168. Sasakura AE Latest Developments

Table 169. Tylon Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 170. Tylon Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 171. Tylon Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 172. Tylon Main Business

Table 173. Tylon Latest Developments

Table 174. CATJC Taj Kee Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 175. CATJC Taj Kee Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 176. CATJC Taj Kee Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 177. CATJC Taj Kee Main Business

Table 178. CATJC Taj Kee Latest Developments

Table 179. GRAD Group Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 180. GRAD Group Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 181. GRAD Group Rectangular Duct Impedance-Type Composite Silencer Sales

(Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 182. GRAD Group Main Business

Table 183. GRAD Group Latest Developments

Table 184. Shinelong Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 185. Shinelong Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 186. Shinelong Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 187. Shinelong Main Business

Table 188. Shinelong Latest Developments

Table 189. Halton Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 190. Halton Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 191. Halton Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 192. Halton Main Business

Table 193. Halton Latest Developments

Table 194. Xingheng Group Basic Information, Rectangular Duct Impedance-Type Composite Silencer Manufacturing Base, Sales Area and Its Competitors

Table 195. Xingheng Group Rectangular Duct Impedance-Type Composite Silencer Product Portfolios and Specifications

Table 196. Xingheng Group Rectangular Duct Impedance-Type Composite Silencer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 197. Xingheng Group Main Business

Table 198. Xingheng Group Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Rectangular Duct Impedance-Type Composite Silencer
- Figure 2. Rectangular Duct Impedance-Type Composite Silencer Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Rectangular Duct Impedance-Type Composite Silencer Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Rectangular Duct Impedance-Type Composite Silencer Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Country/Region (2025)
- Figure 10. Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Resistive-Dominant Composite Silencer
- Figure 12. Product Picture of Reactive-Dominant Composite Silencer
- Figure 13. Product Picture of Resonance-Absorption Composite Silencer
- Figure 14. Product Picture of Micro-Perforated Composite Silencer
- Figure 15. Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Type in 2026
- Figure 16. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of Rectangular Splitter Composite Silencer
- Figure 18. Product Picture of Rectangular Baffle Composite Silencer
- Figure 19. Product Picture of Rectangular Chamber Composite Silencer
- Figure 20. Product Picture of Rectangular Lined Duct Composite Silencer
- Figure 21. Product Picture of Rectangular Plenum Composite Silencer
- Figure 22. Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Structure Type in 2026
- Figure 23. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Structure Type (2021-2026)
- Figure 24. Product Picture of Straight-Through Rectangular Composite Silencer
- Figure 25. Product Picture of Elbow Rectangular Composite Silencer

Figure 26. Product Picture of Offset Rectangular Composite Silencer

Figure 27. Product Picture of Multi-Channel Rectangular Composite Silencer

Figure 28. Product Picture of Low-Resistance Rectangular Composite Silencer

Figure 29. Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Airflow Path in 2026

Figure 30. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Airflow Path (2021-2026)

Figure 31. Rectangular Duct Impedance-Type Composite Silencer Consumed in Commercial Building

Figure 32. Global Rectangular Duct Impedance-Type Composite Silencer Market: Commercial Building (2021-2026) & (Units)

Figure 33. Rectangular Duct Impedance-Type Composite Silencer Consumed in Hospital

Figure 34. Global Rectangular Duct Impedance-Type Composite Silencer Market: Hospital (2021-2026) & (Units)

Figure 35. Rectangular Duct Impedance-Type Composite Silencer Consumed in Data Center

Figure 36. Global Rectangular Duct Impedance-Type Composite Silencer Market: Data Center (2021-2026) & (Units)

Figure 37. Rectangular Duct Impedance-Type Composite Silencer Consumed in Industrial

Figure 38. Global Rectangular Duct Impedance-Type Composite Silencer Market: Industrial (2021-2026) & (Units)

Figure 39. Rectangular Duct Impedance-Type Composite Silencer Consumed in Metro and Rail Transit

Figure 40. Global Rectangular Duct Impedance-Type Composite Silencer Market: Metro and Rail Transit (2021-2026) & (Units)

Figure 41. Rectangular Duct Impedance-Type Composite Silencer Consumed in Others

Figure 42. Global Rectangular Duct Impedance-Type Composite Silencer Market: Others (2021-2026) & (Units)

Figure 43. Global Rectangular Duct Impedance-Type Composite Silencer Sale Market Share by Application (2025)

Figure 44. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Application in 2025

Figure 45. Rectangular Duct Impedance-Type Composite Silencer Sales by Company in 2025 (Units)

Figure 46. Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Company in 2025

Figure 47. Rectangular Duct Impedance-Type Composite Silencer Revenue by

Company in 2025 (\$ millions)

Figure 48. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Company in 2025

Figure 49. Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Geographic Region (2021-2026)

Figure 50. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Geographic Region in 2025

Figure 51. Americas Rectangular Duct Impedance-Type Composite Silencer Sales 2021-2026 (Units)

Figure 52. Americas Rectangular Duct Impedance-Type Composite Silencer Revenue 2021-2026 (\$ millions)

Figure 53. APAC Rectangular Duct Impedance-Type Composite Silencer Sales 2021-2026 (Units)

Figure 54. APAC Rectangular Duct Impedance-Type Composite Silencer Revenue 2021-2026 (\$ millions)

Figure 55. Europe Rectangular Duct Impedance-Type Composite Silencer Sales 2021-2026 (Units)

Figure 56. Europe Rectangular Duct Impedance-Type Composite Silencer Revenue 2021-2026 (\$ millions)

Figure 57. Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Sales 2021-2026 (Units)

Figure 58. Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Revenue 2021-2026 (\$ millions)

Figure 59. Americas Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Country in 2025

Figure 60. Americas Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Country (2021-2026)

Figure 61. Americas Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Type (2021-2026)

Figure 62. Americas Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Application (2021-2026)

Figure 63. United States Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 64. Canada Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 65. Mexico Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 66. Brazil Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 67. APAC Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Region in 2025

Figure 68. APAC Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Region (2021-2026)

Figure 69. APAC Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Type (2021-2026)

Figure 70. APAC Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Application (2021-2026)

Figure 71. China Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 72. Japan Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 73. South Korea Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 74. Southeast Asia Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 75. India Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 76. Australia Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 77. China Taiwan Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 78. Europe Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Country in 2025

Figure 79. Europe Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share by Country (2021-2026)

Figure 80. Europe Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Type (2021-2026)

Figure 81. Europe Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Application (2021-2026)

Figure 82. Germany Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 83. France Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 84. UK Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 85. Italy Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 86. Russia Rectangular Duct Impedance-Type Composite Silencer Revenue

Growth 2021-2026 (\$ millions)

Figure 87. Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Country (2021-2026)

Figure 88. Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Type (2021-2026)

Figure 89. Middle East & Africa Rectangular Duct Impedance-Type Composite Silencer Sales Market Share by Application (2021-2026)

Figure 90. Egypt Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 91. South Africa Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 92. Israel Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 93. Turkey Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 94. GCC Countries Rectangular Duct Impedance-Type Composite Silencer Revenue Growth 2021-2026 (\$ millions)

Figure 95. Manufacturing Cost Structure Analysis of Rectangular Duct Impedance-Type Composite Silencer in 2026

Figure 96. Manufacturing Process Analysis of Rectangular Duct Impedance-Type Composite Silencer

Figure 97. Industry Chain Structure of Rectangular Duct Impedance-Type Composite Silencer

Figure 98. Channels of Distribution

Figure 99. Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Forecast by Region (2027-2032)

Figure 100. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share Forecast by Region (2027-2032)

Figure 101. Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share Forecast by Type (2027-2032)

Figure 102. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share Forecast by Type (2027-2032)

Figure 103. Global Rectangular Duct Impedance-Type Composite Silencer Sales Market Share Forecast by Application (2027-2032)

Figure 104. Global Rectangular Duct Impedance-Type Composite Silencer Revenue Market Share Forecast by Application (2027-2032)

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