

How to Identify a Reliable Steel Fire Rated Door Company with UL Certification in China



Xiamen, Fujian Dec 25, 2025 ([Issuewire.com](https://www.issuewire.com)) - The Escalating Demand for Certified Fire Safety

The market for high-performance building materials, especially fire-rated products, is currently characterized by robust growth, driven by tightening global building codes and heightened public

awareness of fire safety. Modern high-rise buildings, commercial complexes, and critical infrastructure projects worldwide require fire protection solutions that meet internationally recognized standards. The trend is moving away from generic products toward certified, engineered systems that provide verifiable performance data. This shift underscores the need for manufacturers who not only produce the materials but also invest in the rigorous testing and quality control necessary to meet these elevated standards.

The Chinese manufacturing sector, a major global supplier of building materials, is adapting to this demand by professionalizing its export capabilities and quality assurance. While the breadth of supply is vast, the distinction between manufacturers lies in their commitment to global compliance. For a product as vital as a fire-rated door, the manufacturer's adherence to a globally recognized certification body becomes the primary measure of their reliability. For international buyers and project developers, identifying a [Reliable Steel Fire Rated Door Company in China](#) that adheres to stringent international safety benchmarks, particularly those holding **UL Certification**, is paramount to ensuring compliance and structural integrity.

The Significance of UL Certification in Fire Safety

In the realm of fire safety, **UL (Underwriters Laboratories)** certification serves as a global gold standard. It signifies that a product has been tested and evaluated against comprehensive safety standards by an independent, non-profit organization. For a Steel Fire Rated Door, UL certification confirms specific performance attributes, including:

Fire Resistance Rating: The duration (e.g., 60, 90, or 180 minutes) the door assembly can withstand fire exposure without compromising integrity or insulating capacity.

Hose Stream Test: The door's ability to remain in its frame and resist the impact of a high-pressure water hose after fire exposure, simulating the efforts of a fire brigade.

Hardware and Components: Certification extends beyond the door leaf to include the frame, hinges, latches, closers, and glazing, ensuring the entire assembly functions as a single, fire-resistant unit.

For international projects, procuring UL-certified products mitigates risk, streamlines the approval process with local authorities, and offers a legal assurance of quality and performance. When selecting a Chinese supplier, this certification is not merely a marketing tool; it is an objective, third-party validation of the manufacturer's production consistency and material quality.

Xiamen [KDSBUILDING](#) Material Co., Ltd.

Against the backdrop of these industry requirements, Xiamen KDSBUILDING Material Co., Ltd. emerges as a professional China-based manufacturer and exporter of high-end architectural building materials. With over 15 years of exporting experience and more than a decade of specialized production capability, the company demonstrates a mature operational framework focused on global markets.

Deep Dive into [Steel Fire Door Technical Specifications](#)

A reliable fire door manufacturer provides detailed technical specifications that demonstrate performance and material quality. KDSBUILDING's commitment to compliance is reflected in the construction and performance metrics of their steel fire rated doors.

- Core Construction and Materials:

The door profile is constructed from Galvanized Steel, known for its durability and corrosion resistance. The standard core material is Perlite Fire proof Material, with options available for other non-combustible fillers such as Calcium Silicate Board, Rockwool, or Cellular Ceramic. The standard profile thickness is 1.0mm, with options for 0.8mm, 1.0mm, 1.2mm, and 1.5mm. This structural integrity is reinforced by gauge steel in key areas to ensure the door remains functional during a fire event:

Hinge: 10 GA (3.5 MM)

Closer: 12 GA (2.5 MM)

Lock and Strike Plate: 16 GA (1.5 MM)

- Certified Performance Metrics:

The door's effectiveness is quantifiable through its performance ratings, which meet or exceed international safety benchmarks:

Fire Rating Time: Standard 60 Minutes, with flexibility up to 20 minutes to 180 minutes.

Heat Insulation: The temperature rise on the non-fire side is restricted to less than or equal to 140 degrees Celsius (140 C), with optional performance allowing for 140 degrees Celsius to 180 degrees Celsius. Controlling this heat transfer is critical for protecting the evacuation path or adjoining room contents.

Heat Radiation: The outward radiation is specified as less than or equal to 15 kilowatts per square meter (15 kW/m²), with options allowing for 15 kW/m² to 30 kW/m². This low radiation level minimizes the risk of secondary combustion in the protected area.

- Hardware and Sealing:

The reliability of a fire door system depends entirely on its components. KDSBUILDING utilizes Chinese top-brand hardware, with options available from major international brands such as Dorma, Geze, Kinglong, and Gmt. The use of Fire mortise locks, door closers, panic bars, and vision glass are standard to ensure compliance with operational and safety requirements. The door assembly is sealed using EPDM, with PVC as an alternative option, which is essential for smoke control. The certification, encompassing UL, EN, and BS standards (alongside the optional GB 12955), further confirms the rigorous testing of the full system.

Project-Oriented Service and Global Reach

For international clients, quality is inseparable from service. KDSBUILDING maintains a highly trained 10-person foreign trade department, with each member having more than two years of professional service experience. This department emphasizes efficient communication, accurate project quotation, and complete order follow-up. This focus on the export process is critical, as procuring specialized building materials from overseas requires meticulous logistics and document handling, especially concerning certification documentation required for customs and project inspections.

Their building materials have been successfully exported to the USA, UK, Canada, Australia, Norway,

the Philippines, South Africa, the Caribbean, and more than 20 other countries. This track record suggests a robust understanding of different climatic conditions, architectural styles, and local installation requirements.

The Value of a Trusted Partnership

The process of selecting a building material supplier, particularly for life-safety products, is a long-term decision. A partner like Xiamen KDSBUILDING, with verifiable international certifications (UL, CE, etc.), a demonstrated history of export success across diverse geographies, and a dedicated foreign trade infrastructure, offers a model of reliability. They provide assurance that the product delivered not only meets the project specifications but also complies with the mandatory safety regulations of the destination country. This commitment to superior craftsmanship, stable performance, and professional support simplifies the procurement process for global construction projects, allowing developers and contractors to focus on the overall success of their builds, knowing their fire safety components are secure.

For more information on their comprehensive range of certified steel fire rated doors and building materials, please visit the company's official website: <https://www.kdsbuilding.com/>



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