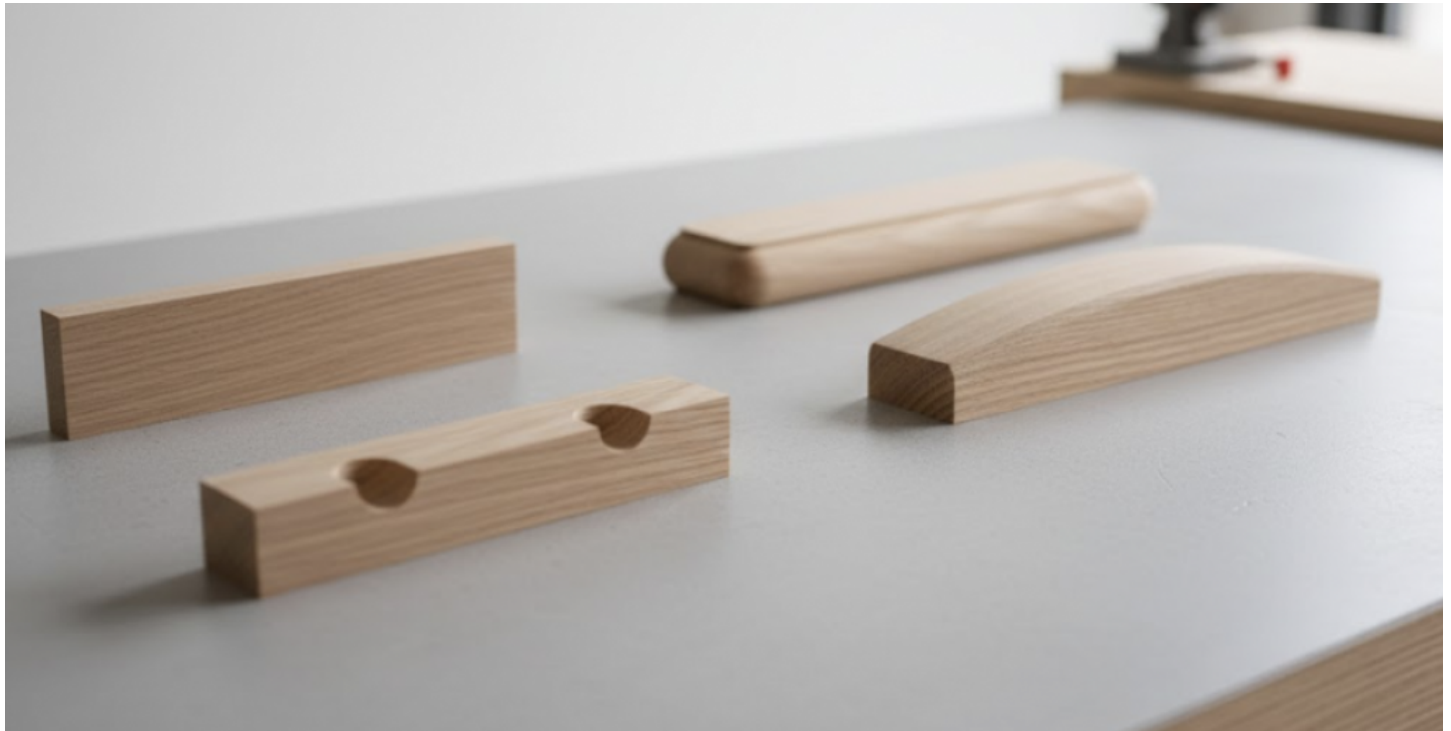


KDSBuilding: Your Trusted Custom Wooden Fire Rated Door Factory Showcasing at The Big 5 Global Summit



Xiamen, Fujian Dec 25, 2025 ([Issuewire.com](https://www.issuewire.com)) - The increasing complexity of modern architecture, coupled with ever-more stringent international safety regulations, has placed advanced architectural solutions like high-performance windows and doors at the forefront of the global construction dialogue. At the intersection of mandated safety and bespoke design stands the [Custom Wooden Fire Rated Door Factory](#) of Xiamen KDSBUILDING Material Co., Ltd., a professional China-based manufacturer and exporter with a dedicated focus on high-end building materials. KDSBuilding is set to showcase its superior product line, particularly its specialized wooden fire-rated doors, at the esteemed Big 5 Global Summit, underscoring its commitment to marrying certified performance with uncompromising aesthetic appeal.

A [Custom Wooden Fire Rated Door](#) is not merely a component for separating spaces; it is a meticulously engineered system designed to protect life and property by compartmentalizing fire and smoke for a specified duration, typically ranging from 20 to 120 minutes. Unlike standard doors, these assemblies incorporate specialized fire-resistant cores, intumescent seals that expand when exposed to heat, and certified hardware—all while maintaining the warmth and architectural integrity that only natural wood can provide. This dual requirement for structural fire integrity and high-end finish is driving a significant shift in the building materials industry.

Critical Role of Core Technology

The importance of core technology in manufacturing fire-rated doors cannot be overstated. The performance of the door assembly is entirely dependent on the composition and integrity of its core and ancillary components. For wooden fire-rated doors, the core often involves a highly engineered solid

timber or mineral composite, formulated to withstand extreme heat and prevent the transmission of fire.

Intumescent Technology: Advanced fire doors rely on high-quality intumescent seals that activate and expand at critical temperatures, effectively sealing the gap between the door leaf and the frame. This tight seal is crucial for preventing the passage of both hot gasses and smoke, which are often the primary threats in a fire event.

Precision Engineering: Because performance is measured in minutes, the manufacturing process requires precise tolerances—often down to 2-4 millimeters for door-to-frame gaps. This necessity for absolute consistency highlights why reliance on advanced CNC equipment and specialized production capabilities, such as those at KDSBuilding's 10,000 square meter factory, is non-negotiable for achieving reliable, certified products.

Customization and Aesthetics: A growing trend, especially in high-end residential and hospitality sectors, is the demand for custom, design-oriented fire doors. Clients no longer want to sacrifice the look and feel of a building for safety. The ability to integrate certified fire-resistant cores with premium wood veneers (e.g., teak or mahogany) while maintaining critical fire ratings (FD30, FD60, etc.) is a technical and logistical challenge that separates specialized manufacturers from general suppliers.

The Big 5 Global Summit: A Platform for Verified Excellence

KDSBuilding's participation in The Big 5 Global Summit—the largest and most influential construction event in the Middle East, Africa, and South Asia (MEASA)—serves as a critical validation of the company's commitment to international quality and market relevance. This exhibition, a nexus for global architects, developers, and specifiers, provides a powerful, neutral platform to present products that meet the highest standards of the built environment.

Gaining Market Confidence and Feedback

For a company like KDSBuilding, participation in The Big 5 is essential for generating trust. By displaying its **Custom Wooden Fire Rated Door Factory** capabilities at an event that attracts over 85,000 industry professionals, the company directly addresses the concerns of global buyers looking for both reliability and aesthetics.

KDSBuilding: Core Strengths in Customization and Certification

For over 15 years, Xiamen KDSBUILDING Material Co., Ltd. has established itself as a reliable partner in the supply of specialized architectural building materials.

The Custom Approach to Fire Safety

The term "Custom" is central to KDSBuilding's offering. The company understands that fire safety cannot be a one-size-fits-all solution, particularly when integrated into unique architectural designs. Key aspects of the customization process include:

Dimensions, Finish, and Aesthetic Design: Door dimensions are a key aspect of customization. Single door sash width can range from 500 to 1200 mm, with heights between 2400 mm and 2600 mm. For double doors, the width can be customized between 1800 mm and 2600 mm, and the height between 2100 mm and 2600 mm. Aesthetically, the finish uses a painting process, and the color selection is rich, covering various light, dark, and textured wood tones. Additionally, clients can choose

from four basic wood moulding profiles (MT-01 to MT-04) to complement different interior design styles.

Fire and Performance Ratings: Customization of performance ratings is central to the fire door offering. The Fire Rating Time can be customized from 20 minutes up to 180 minutes, depending on project requirements and local code compliance. The door's Heat Insulation and Heat Radiation levels can also be adjusted; for example, heat insulation temperature can be selected between 140 and 180°C, and heat radiation can be customized between 15 kW/m² and 30 kW/m². Furthermore, in addition to standard UL, EN, and BS certifications, the option for GB 12955 certification (Chinese National Standard) is available.

Hardware, Locking System, and Sealing: The configuration of hardware provides numerous choices. While the default uses Chinese top brand hardware, clients can opt for internationally recognized brands such as Dorma, Geze, Kinglong, or Gmt. The locking system can be customized from the standard multi-point lock to include options like Multi-Point Locking Systems, Hook Locks, Cylinder Key Locks, or D-Handle/Pull Handles with Key Locks. Key hardware components, including fire mortise locks, door closers, and panic bars, can also be specified to use brands such as KingLong. The standard sealing material is EPDM, but PVC is also available as an option.

Fire Rated Vision Glass: The fire rated vision glass, available as an optional add-on, offers extensive customization to meet requirements for light transmission and safety. Clients can choose between single, double, or triplex layers of fire rated glass. The color palette is diverse, including Clear (Transparent), Frosted, Grey, Brown, Green, and Blue. Glass thickness ranges from 4 mm to 19 mm. For insulated glass, the spacer size can range from 6 A to 16 A, with an option for argon gas filling. Crucially, the quality standards for the glass can comply with UL, BS, and EN certifications.

Certifications as a Guarantee

KDSBuilding's products comply with a broad spectrum of critical global standards, including **NFRC** (USA energy performance), **AAMA** (North America standards), **CE** (European Union safety), **UL** (USA safety and performance), and **AS 2047** (Australian window and door performance). This wide-reaching certification profile is essential for developers and contractors who operate across multiple international markets, ensuring products are compliant and insurable wherever the project is located.

For more information on KDSBuilding's advanced window and door systems, please visit:

<https://www.kdsbuilding.com/>



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