Aceally Heavy-Duty Pallet Racking for Middle East Warehouses At Dubai Big 5 Global

Xiamen, Fujian Sep 20, 2026 (Issuewire.com**)** - DUBAI, UAE — At Dubai Big 5 Global, Aceally (Xiamen) Technology Co., Ltd. (Aceally Group) exhibits heavy-duty racking systems built for warehouse operations across Middle East and GCC markets. These storage solutions support expanding distribution networks within the Gulf Cooperation Council region.

Logistics-focused development driven by Saudi Vision 2030 and UAE industrial transformation initiatives raises demand for certified, high-strength warehouse storage structures suited for local operating conditions. Warehouse operators, building contractors and facility developers in the region seek reliable racking for demanding site environments.

With 30years of manufacturing experience in storage rack systems, Aceally Group Displays their factory manufactured heavy-duty pallet racking at the exhibition. The Racking is engineered to adapt to extreme thermal conditions in the region while supporting high pallet storage densities for the local market.

Ongoing logistics investment in Saudi Arabia, the United Arab Emirates, Qatar and Oman fuels demand for modern high-bay warehouse and distribution centre infrastructure. Industrial supply-chain operators

need heavy-duty storage solutions to optimize vertical space, while retaining structural stability under heavy pallet loads and regular forklift movement. Dubai Big 5 Global connects regional contractors, logistics engineers and racking importers with advanced structural-steel storage systems engineered for Middle-East warehouse operating conditions.

To protect structural steel components in harsh Middle East environments, Aceally Group follows a standardized multi-step surface preparation, coating, and delivery workflow compliant with Chinese industry standard JB/T 11270-2024 and aligned with relevant EN-ISO corrosion-protection standards.

The quality-controlled workflow starts with raw-material inspection to ensure steel is free of rust, burrs, or oil prior to pretreatment. Chemical surface preparation is performed and verified according to ISO 8502-1 and ISO 8502-2. The factory-controlled pretreatment process uses a 5 %-10 % alkaline solution heated to 40-60 °C to remove mill scale, with components passing water-break testing as specified under ISO 8502-9. Following neutral water rinsing, zinc phosphating is carried out to ISO 9717, forming a 3-to-8-micron crystalline layer to enhance paint adhesion and rust resistance.

Structural components receive multi-layer protective finishes, consisting of high-performance primers, intermediate barrier coats, and electrostatic thermosetting resin topcoats formulated to resist intense UV radiation and high ambient temperatures across the Middle East. For coastal sites exposed to saline atmosphere, heavy-duty hot-dip galvanizing is offered as an alternative protection solution in compliance with EN ISO 1461.

Coatings go through thermal curing at 70-90 °C to develop optimal surface hardness. Every production batch undergoes formal performance testing: coating adhesion assessed per ISO 2409, and corrosion resistance validated with a minimum 200-hour salt-spray test following ISO 9227. Finished rack components are securely packed for installation-ready shipment under ISO 780 packaging guidelines. This preserves factory-level corrosion-protection performance throughout ocean transportation until on-site warehouse commissioning.

Q235B /Q355B Structural Steel Integrity for Heavy-Duty Pallet Loading

Heavy-duty pallet racking systems must sustain continuous high-density pallet handling and heavy static loads within vertical storage bays without structural deflection. As an established Chinese pallet-racking manufacturer, Aceally Group constructs its storage systems using prime-grade Q235B and Q355B structural steel. These materials deliver consistent tensile strength, yield-strength performance and mechanical durability for multi-tier warehouse storage configurations.

Cold-formed upright columns and box-section horizontal beams are processed via precision roll-forming to form rigid load-bearing profiles suitable for heavy-duty industrial loads. Beam-to-column connections adopt heavy-duty connector hooks together with spring-loaded safety locking pins. The assembly retains beam stability under dynamic forklift impact and repeated loading cycles. Heavy-duty steel baseplates fix upright frames to concrete warehouse floors using expansion anchors, preserving structural performance under heavy pallet loads, floor vibration and local seismic-design requirements across the Middle East.

Versatile Racking Layouts for Middle East Distribution Operations

Logistics operators across the Middle East handle varied storage needs covering fast-moving consumer goods (FMCG), industrial spare parts and bulk raw materials. Aceally Group produces a range of heavy-duty racking configurations adaptable to local warehouse layouts and inventory-picking

workflows. Selective pallet racking is widely applied, featuring height-adjustable horizontal beams and rigid vertical frames. It enables full direct pallet access for multi-SKU distribution centers without dedicated material-handling equipment.

For sites prioritizing higher storage density over unrestricted immediate access, Aceally provides alternative racking solutions with targeted operational benefits. Double-deep pallet racking places selective frames two-deep to increase storage density, compatible with reach trucks fitted with telescopic forks. Drive-in racking removes internal operating aisles by allowing forklift entry into storage lanes, maximizing volumetric utilization for low-SKU bulk goods. Additional high-density formats include push-back racking, Very Narrow Aisle (VNA) systems and automated radio-shuttle racking to improve overall warehouse throughput.

Verified Regulatory Credentials: AS4084, CE, and ISO 9001 Alignment

International logistics projects and regional building codes require documented engineering compliance for warehouse storage installations. Aceally Group manufactures heavy-duty racking under an ISO 9001-certified quality-management system and holds CE certification together with compliance to Australian standard AS4084. These qualifications confirm raw-material specifications, weld penetration, structural calculations and manufacturing tolerances meet internationally-recognised safety requirements.

Beyond core product certifications, engineering work references global industry guidelines including RMI (Rack Manufacturers Institute), European FEM (Fédération Européenne de la Manutention) and OSHA safety provisions. In-house structural engineers calculate beam-deflection limits, column-buckling performance and safety load factors to align with local building regulations for Middle-East export markets.

Manufacturing Base Scale and Global Order Execution

Large-scale warehouse projects in the Middle East depend on verifiable production capacity to meet delivery schedules. Operating as a direct factory manufacturer rather than a trade intermediary, Aceally Group runs four production plants totalling 150 000 m^2 of modern manufacturing floor space, with its main production site located in Nantong. Over 1 200 skilled personnel support stable output for large-volume industrial orders.

Production lines include automated upright roll-forming equipment, precision beam-forming machines, robotic-welding stations and high-capacity automated powder-coating lines, supplemented by more than 50 specialised processing units. Steel coil incoming inspection covering thickness and surface condition is performed in accordance with ISO 9001 prior to processing. Robotic welding delivers consistent deep-penetration welds for connector brackets and baseplates, supporting repeatable component quality and predictable shipment timelines for regional logistics contracts.

Direct Factory Supply Advantage for Middle East Logistics Contractors

Sourcing heavy-duty pallet racking directly from a specialised manufacturer enables Middle-East warehouse buyers to obtain Q235B / Q355B structural-steel products, complete CE and AS4084 certification documentation, standardised multi-step surface treatment and direct engineering support. Compared with sourcing via trade intermediaries, this approach helps accelerate warehouse commissioning and mitigates risks associated with unqualified steel grades, inconsistent surface finishing and incomplete structural-load documentation which may cause operational issues and project

delays. The direct-factory model offers logistics contractors and warehouse procurement teams accessible technical support, fixed delivery schedules and clear commercial terms.

Conclusion and Middle East Project Engagement

At Dubai Big 5 Global, Aceally Group exhibits heavy-duty racking solutions engineered for Middle-East warehouse operating conditions. Combining Q235B and Q355B structural-steel design, AS4084 and CE compliance, heat-resistant anti-corrosion surface treatment and 150 000 m^2 of manufacturing capacity, Aceally supports ongoing logistics-sector expansion across Gulf markets.

Parties seeking custom warehouse-racking layout proposals, downloadable technical specifications or volume-order lead-time information for Middle-East projects may visit the solution portal: https://www.acerackingsystem.com/warehouse-racking/. Direct engineering consultation is available via the technical-sales team.

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