QUADENTRY WOOD PALLET

STANDARDIZED FOUR-WAY UNIVERSAL WOODEN CARGO PALLET

Doc ID: SPEC-4WWP1210-V1
Class: Universal Logistics Packaging

FOOTPRINT	DYNAMIC LOAD	STATIC LOAD	ENTRY ACCESS
1200 × 1000 mm	1,500 kg	4,000 kg	4-Way (Fork & Jack)

PRODUCT OVERVIEW

The QuadEntry 4-Way Wooden Pallet is designed for maximum efficiency in material handling and automated warehousing. Constructed using high-grade structural timber with block or notched stringer design options, it allows full entry access from all four sides for both forklifts and hand pallet jacks. This 360-degree accessibility optimizes truck loading efficiency, minimizes maneuver time in tight warehouse aisles, and supports automated storage and retrieval systems (ASRS).

STRUCTURAL DESIGN & 4-WAY ENTRY VECTORS

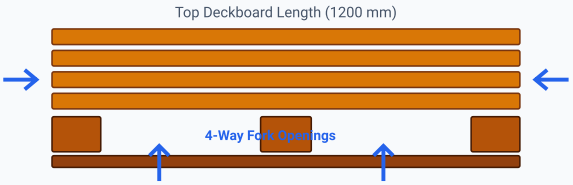


Figure 1: Full 4-Way Entry Profile via Solid Block Base Construction

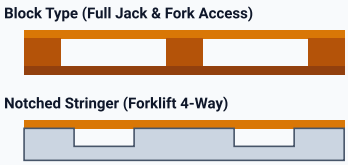


Figure 2: Architectural Comparison: Block Design vs. Notched Stringer Design

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION LIMIT	STANDARD COMPLIANCE / NOTES
Overall Dimensions	1200 mm (L) × 1000 mm (W) × 144 mm (H)	ISO 6780 / Standard Commercial Size
Dynamic Load Capacity	1,500 kg (Uniformly Distributed Load)	Tested under active forklift transportation
Static Load Capacity	4,000 kg (Solid Floor Stacking)	Accommodates multi-tier warehouse stacking
Racking Load Capacity	1,000 kg (Unsupported Beam Rack)	Compatible with standard pallet racking
Timber Materials	Kiln-Dried Hardwood or Dense Softwood	Bark-free debarked timber options
Moisture Content	≤ 18% (Kiln-Dried - KD)	Prevents shrinkage, warping, and mold
Phytosanitary Certification	ISPM-15 Heat Treated (HT Stamp)	Compliant for international export cargo
Fastener Type	Helical Ring-Shank Drive Nails	Flush-driven to protect cargo packaging

ENGINEERING & OPERATIONAL FEATURES

Universal 360-Degree Handling

Allows access from any orientation, maximizing speed during trailer loading/unloading and optimizing floor space in high-density facilities.

ASRS & Conveyor Compatible

Consistent base runner placement ensures smooth transition over automated roller beds, chain drives, and high-bay racking systems.

ISPM-15 Heat Treated for Export

Thermal processing to a core temperature of 56°C for 30 minutes ensures compliance with global customs regulations without chemicals.

Beveled Lead-In Base Boards

Machine-milled chamfered edges on bottom deckboards allow pallet jack wheels to roll smoothly in and out without damaging timber joints.

COMPONENT DIMENSIONAL BREAKDOWN

ELEMENT DESCRIPTION	DIMENSIONS (L × W × H)	QUANTITY PER UNIT
Top Lead Deckboards	1000 mm × 145 mm × 20 mm	2 Boards (Front & Rear Edges)
Top Intermediate Deckboards	1000 mm × 100 mm × 20 mm	5 Boards (Evenly Spaced)
Solid Support Blocks	145 mm × 90 mm × 78 mm	9 Solid Timber Blocks
Bottom Perimeter Skids	1200 mm × 145 mm × 20 mm	3 Base Runner Boards