# THERMOSHIELD HT-1210

**ISPM-15 CERTIFIED HEAT-TREATED EXPORT WOODEN PALLET**

Doc ID: SPEC-HTP1210-V1
Class: Global Export Packaging

| STANDARD FOOTPRINT | HEAT TREATMENT | MOISTURE CONTENT | COMPLIANCE STANDARD |
|---|---|---|---|
| 1200 × 1000 mm | 56°C Core / 30 min | ≤ 18% (Kiln-Dried) | ISPM-15 IPPC Stamped |

## PRODUCT OVERVIEW

The ThermoShield HT-1210 is a premium heat-treated industrial wooden pallet specifically manufactured for cross-border freight and international trade. Processed in thermal treatment kilns certified under the International Standards for Phytosanitary Measures No. 15 (ISPM-15), each pallet is heated to a minimum core wood temperature of 56°C for at least 30 minutes. This process eradicates wood-boring pests and fungal pathogens without chemical treatment, ensuring hassle-free customs clearance worldwide.

## THERMAL TREATMENT PROFILE & IPPC STAMP MARKING

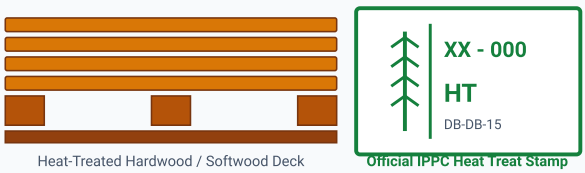



Figure 1: Kiln-Dried Pallet Layout & Compliant IPPC "HT" Export Mark

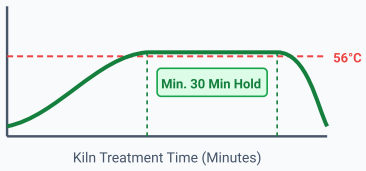



Figure 2: Wood Core Temperature Profile During Thermal Processing

## TECHNICAL SPECIFICATIONS

| PARAMETER | SPECIFICATION LIMIT | COMPLIANCE STANDARD / NOTES |
|---|---|---|
| **Overall Dimensions** | 1200 mm (L) × 1000 mm (W) × 144 mm (H) | ISO 6780 / EUR-2 Footprint options available |
| **Treatment Standard** | ISPM-15 Heat Treatment (HT) | No chemical fumigation (MB-free environment) |
| **Core Temperature & Time** | 56°C (133°F) minimum for ≥ 30 minutes | Monitored via multi-probe core sensors |
| **Moisture Content (MC)** | ≤ 18% Kiln-Dried (KD) | Eliminates risk of mold growth & warping |
| **Dynamic Load Capacity** | 1,800 kg (Uniformly Distributed Load) | Suitable for heavy air/sea container freight |
| **Static Load Capacity** | 5,000 kg (Solid Floor Stacking) | Supports multi-tier container stacking |
| **Marking & Branding** | Dual-Sided IPPC Stencil / Hot Stamp | Includes country code, producer ID, and HT mark |
| **Timber Material** | Kiln-Dried Hardwood or Selected Softwood | Bark-free debarked timber (DB compliant) |

## EXPORT & OPERATIONAL ADVANTAGES

### 100% ISPM-15 Customs Compliance

Fully compliant with global phytosanitary import regulations for North America, the European Union, Asia-Pacific, and Latin American customs borders.

### Eco-Friendly Thermal Process

Uses pure heat sterilization without Methyl Bromide (MB) chemicals, keeping food, pharmaceutical, and consumer goods packaging safe from contamination.

### Kiln-Dried Mold Prevention

Controlled moisture reduction prevents black mold, fungal spore growth, and structural rot during extended sea container transit times.

### Reduced Shipping Tare Weight

Moisture removal decreases unladen pallet weight by up to 15%, lowering airfreight costs and optimizing container payload limits.

## COMPONENT DIMENSIONAL SPECIFICATIONS

| ELEMENT DESCRIPTION | DIMENSIONS (L × W × H) | QUANTITY PER UNIT |
|---|---|---|
| **Top Outer Lead Boards** | 1000 mm × 145 mm × 22 mm | 2 Boards (Front & Rear Edges) |
| **Top Intermediate Deckboards** | 1000 mm × 100 mm × 22 mm | 5 Boards (Evenly Spaced) |
| **Solid Support Blocks** | 145 mm × 90 mm × 78 mm | 9 Kiln-Dried Solid Wood Blocks |
| **Bottom Base Skids** | 1200 mm × 145 mm × 22 mm | 3 Base Boards |