



## Modular 8x15m Hard Wall Aluminum Party Marquee Tent Sandwich Panel Insulated European Commercial Event Structure

Our Product Introduction

### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: EcoTentPro
- Certification: CE, EN 13782, ISO 9001:2015, DIN 4102 B1, EN 14509
- Model Number: ETP-HW0815-EU
- Minimum Order Quantity: 1 Set
- Price: USD 6,800-9,500 / Set
- Packaging Details: Sandwich panels on A-frame steel pallets, aluminum frame in protective sleeves on pallets, fabric in PVC carry bags, all export-grade packaging with moisture barrier
- Delivery Time: 15-25 working days after deposit
- Payment Terms: T/T, L/C at sight, PayPal
- Supply Ability: 150 Sets per Month



### Product Specification

- Tent Size (WxL): 8m X 15m
- Side Height: 3.0m
- Ridge Height: 4.8m
- Frame Material: Extruded Aluminum 6061-T6
- Wall Material: 50mm EPS Sandwich Panel (steel-PU-steel)
- Roof Material: 850g/m<sup>2</sup> Double-Coated PVC
- Thermal Insulation: R-value 2.5 (walls)
- Fire Rating: DIN 4102 B1 / A2-s1,d0
- Wind Resistance: Up To 120 Km/h
- Snow Load: 0.75 KN/m<sup>2</sup>
- Door Configuration: Double Glass Doors + Service Door
- Floor Option: Elevated Cassette Flooring System
- Highlight: **Modular hard wall party marquee tent, Aluminum sandwich panel event structure, Insulated European commercial marquee tent**

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## Product Description

### Product Overview

The **ETP-HW0815-EU Modular Hard Wall Party Marquee Tent** represents the next generation of semi-permanent event structures for the European market. Combining an extruded aluminum 6061-T6 frame with 50mm insulated EPS sandwich panel walls, this 8m x 15m tent delivers true year-round usability — from snowy Alpine winter weddings to sun-drenched Mediterranean summer galas. The rigid wall system provides superior thermal insulation (R-value 2.5), acoustic dampening, and security far beyond traditional fabric-walled tents. CE certified and compliant with EN 14509 for sandwich panels, it meets the most stringent EU building standards for temporary structures.

### Technical Specifications

Frame & Structure	
Frame Material	Extruded Aluminum Alloy 6061-T6
Main Profile	220mm * 110mm * 4mm (4-channel)
Connectors	Hot-dip galvanized forged steel, M16 grade 8.8
Wall System	50mm EPS sandwich panel, 0.5mm steel skins, PU sealed joints
Wall Panel Width	1.0m standard module
Dimensions	
Width * Length	8m * 15m (120 m <sup>2</sup> interior)
Side Height	3.0m
Ridge Height	4.8m
Bay Distance	5.0m (3 bays)
Insulation & Performance	
Wall R-Value	2.5 m <sup>2</sup> -K/W (EPS core)
Acoustic Reduction	28 dB (STC)
Wind Resistance	Up to 120 km/h
Snow Load	0.75 kN/m <sup>2</sup>
Fire Rating (Wall)	A2-s1,d0 (EN 13501-1)
Fire Rating (Roof)	DIN 4102 B1
Doors & Access	
Main Entrance	Double glass doors, 2.0m * 2.4m, aluminum frame
Service Door	Single steel door, 1.0m * 2.1m, rear wall
Windows	Aluminum frame fixed windows, 1.2m * 1.5m (optional)

### Key Advantages & Selling Points

#### \* True Year-Round Operation

50mm EPS sandwich panels with R-value 2.5 provide genuine thermal insulation. Combined with optional HVAC integration ports, this tent maintains comfortable interior temperatures from -25°C Nordic winters to +40°C Mediterranean summers. No more seasonal tent downtime.

#### Hard Wall Security

Steel-skinned sandwich panel walls provide lockable, secure enclosures suitable for valuable AV equipment, exhibition displays, and overnight storage. Unlike fabric-walled tents, hard walls deter unauthorized access — essential for corporate and luxury events.

#### Superior Acoustic Performance

28 dB STC acoustic reduction isolates interior sound from the external environment. Ideal for conferences, live music performances, and events near residential areas where noise ordinances are strict — a common requirement across EU municipalities.

#### **Semi-Permanent Approval Ready**

Engineered to EN 14509 (sandwich panels) and EN 13782 (temporary structures), this tent qualifies for semi-permanent building permits in many EU jurisdictions. Steel skin walls meet fire classification A2-s1,d0 for public assembly use.

#### **Modular Wall Configuration**

1.0m standard wall modules allow flexible layout: solid panels, window panels, door panels, and HVAC pass-through panels can be mixed and matched. Reconfigure walls as event requirements evolve without structural modification.

#### **♻️ Sustainable & Reusable**

Aluminum frame is infinitely recyclable. EPS core panels contain 30% recycled content and are fully recyclable at end-of-life. The modular design means components can be reconfigured for different events, maximizing ROI over 15+ year service life.

## **Production Process**

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### **Aluminum Extrusion & Machining**

6061-T6 billets extruded through precision dies at 480°C. Profiles aged to T6 temper (8 hours at 175°C), then CNC-machined to ±0.5mm with pre-drilled connection holes. Spectrographic composition verified per batch.

2

### **Sandwich Panel Manufacturing**

0.5mm galvanized steel coils pre-painted with PE/SMP coating (25µm). EPS foam blocks (density 16-20 kg/m<sup>3</sup>) cut to 50mm thickness. Panels laminated under heat and pressure (80°C, 0.5 MPa) on continuous lamination line. PU sealant applied to all edges.

3

### **Steel Component Galvanizing**

Connectors, base plates, and door frames hot-dip galvanized at 450°C to 85µm minimum. Post-treatment chromate passivation for enhanced corrosion resistance. Every batch salt spray tested to ASTM B117 (500+ hours).

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### **PVC Roof Fabrication**

850g/m<sup>2</sup> PVC fabric CNC-cut with 50mm seam allowance. Panels high-frequency welded at 27.12 MHz with 40mm overlap. Every weld line pull-tested to ≥ 2500 N/5cm. Fire retardant certification verified per production lot.

5

### **Full Assembly Trial**

Every unit undergoes complete factory pre-assembly: frame erected, panels installed, roof tensioned, doors fitted. Dimensional accuracy verified with laser measurement (±2mm across 15m span). Water spray test (4 hours) on assembled structure.

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### **QC Documentation & Packaging**

Complete QC dossier compiled per unit: material certs, dimensional reports, weld test results, fire certs. Components labeled with QR-code traceability. Sandwich panels packed on A-frame pallets with interleaving protection. Container loading plan provided for efficient EU logistics.

## **Factory & Company Strength**

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**European-Grade Manufacturing Excellence**

## Certifications & Test Reports

CE Marking  
Structural Report

EN 13782:2015  
RoHS / REACH

EN 14509

ISO 9001:2015

EN 13501-1 A2-s1,d0

DIN 4102 B1

TÜV Rheinland

SGS

Comprehensive documentation package provided: CE Declaration of Conformity, EN 14509 panel compliance certificate, fire classification report (EN 13501-1), structural calculations per Eurocode EN 1991, wind tunnel test data, thermal transmittance (U-value) certification, and material safety data sheets (MSDS). All documents available in English, German, French, and Italian.

## Pre-Sales & After-Sales Service

Pre-Sales Service	After-Sales Service
Free architectural 3D rendering for permit application	3-year structural warranty on frame & panels
Wind/snow load calculation per local Eurocode annex	EU-based spare parts inventory for 48-hour dispatch
Fire strategy documentation for local authority approval	Remote video inspection service for annual condition assessment
Thermal & acoustic performance simulation report	On-site installation supervision by factory engineer (EU travel)
Sample panel section & fabric swatch by courier	Lifetime technical support via phone/WhatsApp/email
DDP shipping to EU with full customs clearance	Extension bay kits available for future expansion

## Application Cases & Scenarios

Corporate Event

**Corporate Product Launches & Galas**

Winter Wedding

**Alpine Winter Weddings & Ski Resort Events**

Exhibition

**Art Exhibitions & Gallery Pop-Ups**

Conference

**Business Conferences & Seminars**

Fine Dining

**Seasonal Fine Dining Pop-Up Restaurants**

Auto Show

**Luxury Automotive Showroom & Launch Events**

## FAQ

### Q1: Can this structure obtain a semi-permanent building permit in EU countries?

Yes. The ETP-HW0815-EU is engineered to EN 13782 (temporary structures) and EN 14509 (sandwich panels). We provide complete structural calculations per Eurocode EN 1991, fire classification reports, and CE documentation required for building permit applications. Many clients in Germany, Netherlands, and France have obtained 5-year temporary structure permits using our documentation package.

### Q2: How does the insulation compare to a traditional fabric tent?

The 50mm EPS sandwich panels provide R-value 2.5 — approximately 8-10 times more insulation than single-layer PVC fabric walls. In practical terms: with a 5kW heater, the interior stays at 20°C when outside temperature is -5°C. Fabric-walled tents typically require 3-4x more heating energy for the same result.

### Q3: How many people can set up this tent and how long does it take?

A team of 5-6 people with basic tools can erect the complete structure (frame + roof + wall panels + doors) in approximately 8-10 hours. We provide detailed assembly manuals with step-by-step illustrations. Optional factory-supervised installation is available for your first unit.

### Q4: Can I add HVAC, electrical, or plumbing to this structure?

Yes. The sandwich panels can be factory-prepped with cutouts for split AC units, ventilation ducts, electrical conduits, and plumbing penetrations. We offer pre-configured HVAC pass-through panels as part of your wall layout. Specify your

requirements during the design phase and we will integrate them into the production drawings.

#### Q5: What foundation is needed?

Options: (1) Ground anchors on compacted soil/grass — simplest, removable. (2) Concrete ballast blocks on paved surfaces — no drilling, fully removable. (3) Bolt-down base plates on existing concrete slab — most permanent. We provide the appropriate anchoring system based on your site conditions and permit requirements.

#### Q6: Is the tent relocatable or is it a one-time installation?

The modular design makes it fully relocatable. All wall panels connect via a bolt-and-gasket system (no adhesives). The structure can be disassembled, transported, and reassembled multiple times. Many event rental companies relocate these tents between seasonal venues. We recommend professional disassembly/reassembly to maintain warranty coverage.

## Package Contents

Component	Quantity	Specification
Aluminum Frame Profiles	Full set	6061-T6, 220*110*4mm, anodized
EPS Sandwich Wall Panels	Full set	50mm, 0.5mm steel skins, RAL 9010 white
PVC Roof Cover	1 set	850g/m <sup>2</sup> , white, B1 fire rated
Double Glass Door	1 set	Aluminum frame, 2.0*2.4m, tempered glass
Steel Service Door	1 pc	1.0*2.1m, powder coated
Steel Base Plates	Full set	350*350*10mm, galvanized
Connectors & Fasteners	Full set	M16 grade 8.8, galvanized
Ground Anchoring Kit	1 set	Per site specification
Assembly Manual	1 set	EN/DE/FR + engineering drawings
Spare Parts & Sealant Kit	1 set	Gaskets, touch-up paint, PU sealant



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