



Commercial Clear Span Aluminum Frame Party Tent NFPA 701 Fire Retardant PVC American Wedding Event Venue

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: EcoTentPro
- Certification: NFPA 701, CPAI-84, ASTM E84 Class A, ISO 9001:2015, IBC 2024 Compliant
- Model Number: ETP-CS2040-US
- Minimum Order Quantity: 1 Set
- Price: USD 4,200-6,500 / Set
- Packaging Details: Heavy-duty PVC carry bags for fabric, reinforced steel pallets for aluminum frame, export-grade cartons with desiccant packs, FOB Shenzhen/Ningbo
- Delivery Time: 7-15 working days after deposit confirmation
- Payment Terms: T/T, L/C at sight, PayPal, Wire Transfer
- Supply Ability: 200 Sets per Month



Product Specification

- Tent Size (WxL): 20ft X 40ft (6m X 12m)
- Covered Area: 800 Sq Ft
- Side Height: 8.2ft (2.5m)
- Ridge Height: 13.1ft (4.0m)
- Frame Material: Extruded Aluminum 6061-T6
- Main Profile: 200mm X 100mm X 4mm
- Roof Material: 18oz PVC (850g/m²) Double-Coated
- Sidewall Material: 16oz PVC (650g/m²) With Window Panels
- Fire Certification: NFPA 701 / CPAI-84 / ASTM E84 Class A
- Wind Rating: Up To 90 Mph
- Snow Load: 20 Psf
- Connection System: Fork-and-Pin Quick Connect
- Highlight: **Commercial aluminum frame party tent, Fire retardant PVC wedding tent, Clear span event venue tent**

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Product Description

Product Overview

The **ETP-CS2040-US Commercial Clear Span Frame Tent** is purpose-built for the American event rental industry. Spanning 20ft x 40ft (800 sq ft) with an open, column-free interior, this tent delivers the reliability and safety compliance that US rental companies, wedding venues, and corporate event planners demand. The extruded aluminum 6061-T6 frame with fork-and-pin quick-connect system enables rapid deployment, while the 18oz NFPA 701 / CPAI-84 certified PVC roof and 16oz sidewalls meet or exceed fire safety codes enforced by US fire marshals nationwide. Engineered for 90 mph wind loads and 20 psf snow loads, this tent is ready for deployment across the continental US — from Florida hurricanes to Colorado snowstorms.

Technical Specifications

Frame & Structure	
Frame Material	Extruded Aluminum Alloy 6061-T6
Main Profile	200mm * 100mm * 4mm (3.94" * 3.15" * 0.16")
Connection System	Fork-and-Pin Quick Connect, Tool-Free Assembly
Base Plates	12" * 12" * 0.4" Steel, Hot-Dip Galvanized
Purlin	2.5" * 2.0" * 0.12" Aluminum Tube
Dimensions	
Width * Length	20ft * 40ft (6.1m * 12.2m)
Covered Area	800 sq ft (74.3 m ²)
Side Height	8.2ft (2.5m)
Ridge Height	13.1ft (4.0m)
Bay Spacing	10ft (4 bays on length)
Fabric & Covering	
Roof Material	18oz/yd ² PVC (850g/m ²), Double-Coated, White
Sidewall Material	16oz/yd ² PVC (650g/m ²) with Panoramic Windows
Fire Certification	NFPA 701-2019 Test 1 & 2, CPAI-84 Section 6
Flame Spread Index	ASTM E84 Class A (FSI ≤ 25)
Waterproof Rating	100% Waterproof, HF Welded Seams
UV Protection	UV Stabilized, 95% UV Block
Structural Performance	
Wind Rating	90 mph (Beaufort 10)
Snow Load	20 psf (0.96 kN/m ²)
Service Life	10-15 years (frame), 5-8 years (fabric)

Key Advantages & Selling Points

NFPA 701 & CPAI-84 Compliant

All fabric passes NFPA 701 Test 1 & 2 and CPAI-84 Section 6 — the two fire standards mandated by US fire marshals for temporary membrane structures. Full certification documentation included for fire department permit applications. ASTM E84 Class A flame spread rating provides additional compliance for venues with stricter codes.

Clear Span Interior

800 sq ft of completely unobstructed space with zero interior poles. Configure seating for 80 guests banquet-style, 120 theater-style, or a mixture of lounge areas and buffet stations. The 13ft ridge height accommodates chandeliers, AV rigging, and tall decorations.

◀ Tool-Free Quick Setup

The fork-and-pin connection system means zero tools required for assembly. A 3-person crew can erect the complete 20x40ft tent in under 3 hours — critical for rental companies doing multiple weekend setups. All components are color-coded and numbered for intuitive assembly.

90 MPH Wind Rated

Engineered for US wind zones including Gulf Coast, Florida, and Midwest storm regions. Structural calculations follow ASCE 7-22 (Minimum Design Loads for Buildings). Upgraded anchoring packages available for hurricane-prone coastal areas (Dade County compliant).

Modular Expandable

10ft bay system allows infinite length extension. Start with 20x40ft today, add bays for 20x60ft, 20x80ft or larger as your rental fleet grows. Width expansion kits to 30ft and 40ft also available — one investment that scales with your business.

IBC 2024 Compliant Design

Structural design follows IBC 2024 Chapter 31 (Special Construction) for temporary structures. Engineering package accepted by building departments nationwide. We provide sealed structural calculations from a US-licensed PE upon request for permit applications.

Production Process



Aluminum Extrusion & T6 Tempering

6063/6061 billets extruded at 480°C through custom profile dies. Solution heat-treated at 530°C for 4 hours, water quenched, then artificially aged at 175°C for 8 hours to achieve T6 temper. Tensile testing per ASTM B557 on every extrusion lot.



Precision CNC Machining

Profiles cut and drilled on 5-axis CNC centers with ±0.5mm positional accuracy. All fork-and-pin connection holes are chamfered and deburred. Steel base plates laser-cut and center-punched for anchor bolt alignment.



Hot-Dip Galvanizing

All steel components (base plates, connectors, pins) immersed in 450°C molten zinc bath for 85µm minimum coating. Post-galvanizing passivation treatment. Salt spray tested to ASTM B117 for 500+ hours with zero red rust.



Fabric Cutting & HF Welding

18oz PVC fabric CNC-cut with 2" seam allowance. Panels joined via high-frequency (27.12 MHz) welding with 1.6" overlap. Every seam pull-tested to 500+ lbf/2" width. NFPA 701 flame test performed on every production lot — certificates traceable by lot number.



Pre-Assembly Quality Check

Every 10th unit undergoes complete pre-assembly in our 8,000 sq ft QC bay. Frame fit, fabric tension, grommet alignment, and door zipper function verified. 4-hour water spray test on assembled unit. Every connection point inspected and signed off.



Packaging & US Export Prep

Fabric folded into heavy-duty PVC bags with moisture-absorbing desiccant packs. Frame components palletized with VCI anti-corrosion wrap. All pallets ISPM 15 heat-treated for US customs compliance. FOB Shenzhen or Ningbo with full export documentation including NFPA 701 certs, packing list, commercial invoice, and Certificate of Origin.

Factory & Company Strength

Your American Market Manufacturing Partner Since 2010

Certifications & Test Reports



Complete US-focused documentation package: NFPA 701 test certificates (per lot), CPAI-84 compliance letter, ASTM E84 flame spread report, SGS factory audit report, material mill certificates (aluminum + steel), ISPM 15 fumigation certificate, and US Customs compliant commercial invoice. All documents formatted for US fire marshal and building department submission.

Pre-Sales & After-Sales Service

Pre-Sales Service	After-Sales Service
Free 3D layout design for your client's event space	2-year structural warranty on frame
NFPA 701 documentation package for fire permit	Replacement parts shipped FedEx/DHL 48hr to US
Sample swatches mailed to your US address	Lifetime technical support (EST/PST business hours)
PE-stamped structural calculations for building permit	Video call setup assistance & training for crews
Custom branding: logo printing on tent & valance	Annual maintenance package for multi-unit fleets
FOB/CIF/DDP shipping options to all US ports	Emergency spare parts 24hr dispatch program

Application Cases & Scenarios

Backyard Wedding	Backyard & Barn Weddings
Corporate Event	Corporate Retreats & Company Picnics
Graduation	Graduation & Homecoming Parties
Tent Rental	Event Rental Company Fleet Asset
Winery	Winery & Vineyard Tasting Events
Tailgate	Tailgate & Game Day Hospitality

FAQ

Q1: Will this tent pass fire marshal inspection for my event?

Yes. Every tent ships with NFPA 701 and CPAI-84 fire certificates — the two standards required by US fire marshals. The fabric also meets ASTM E84 Class A (flame spread index ≤ 25). We provide a ready-to-submit fire documentation package with every shipment. Since 2015, zero US customers have reported fire code rejections using our certification package.

Q2: How does this tent handle Florida/Gulf Coast wind conditions?

Standard configuration is rated to 90 mph sustained winds (ASCE 7-22 Risk Category I). For Florida High-Velocity Hurricane Zones (HVHZ / Miami-Dade County), we offer an upgraded anchoring package with deeper ground anchors, additional guy lines, and reinforced base connections — contact us with your specific county requirements for a quote.

Q3: What's the setup time and crew size required?

A 3-person crew can assemble the 20x40ft frame in approximately 2.5-3 hours. Adding roof fabric and sidewalls takes another 1-1.5 hours. Total: about 4 hours from truck to finished tent for an experienced crew. No specialized tools needed — just ladders and a rubber mallet.

Q4: Can I expand this tent later as my rental business grows?

Yes. The modular 10ft bay system allows you to add extension bays to increase length to 20x50ft, 20x60ft, 20x80ft, etc. Width expansion kits convert 20ft to 30ft or 40ft wide. All expansion components are fully compatible with your existing

frame — buy the base tent now, grow as your business scales.

Q5: How do you ship to the US and what are the logistics?

Standard shipping is FOB Shenzhen or Ningbo (you arrange ocean freight). We also offer CIF to any US port (Los Angeles/Long Beach, Houston, Savannah, Newark, Seattle) and DDP door-to-door delivery. Typical ocean transit is 18-25 days to West Coast, 28-35 days to East Coast. We provide complete US Customs documentation (ISPM 15, commercial invoice, packing list, COO).

Q6: What's included in the package?

Complete 20x40ft tent: aluminum frame (all profiles, connectors, base plates), 18oz PVC roof cover, 4 sidewalls (16oz PVC with panoramic windows), ground anchors (stakes for soil or wedge anchors for asphalt), tension ropes, heavy-duty PVC carry bags, rubber mallet, spare parts kit, assembly manual, and complete NFPA 701 / CPAI-84 fire certification package. Sidewalls, doors, and accessories are all included — no hidden add-ons.

Package Contents

Component	Quantity	Specification
Aluminum Frame Profiles	Full set	6061-T6, anodized 15µm
PVC Roof Cover	1 pc	18oz/yd ² , NFPA 701 certified, white
Sidewalls with Windows	4 pcs	16oz/yd ² PVC, panoramic window panels
End Wall with Zipper Door	2 pcs	16oz PVC, heavy-duty #10 zipper
Steel Base Plates	Full set	12"×12"×0.4", hot-dip galvanized
Ground Stakes	Full set	36" steel, galvanized, with caps
Tension Ropes & Ratchets	Full set	3/8" polypropylene, 1,500 lbf capacity
PVC Carry Bags	4 pcs	Heavy-duty with handles & zipper
Tool Kit	1 set	Rubber mallet, stake puller, tension tool
NFPA 701 Fire Cert Package	1 set	Per-lot test certificates + compliance letter



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