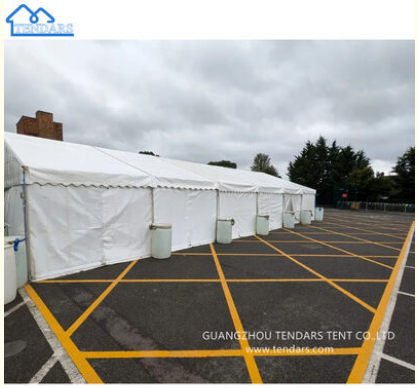


Two Storey Clear Span Marquee Tent Trade Fair Office Canopy Building Steel Deck Structure

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: Tendars
- Certification: ISO9001, SGS, COC, CE
- Model Number: TDS-2S30X50
- Minimum Order Quantity: 500 square meters
- Price: USD 105-148 / Square Meter of ground area
- Packaging Details: Heavy frame and steel deck in open top container with timber dunnage, fabric in numbered bags, stair modules crated by level
- Delivery Time: 25 days production after deposit and drawing approval. Sea freight time depends on your destination port. Installation time varies with the project and site access.
- Payment Terms: T/T 40% deposit, 50% before loading, 10% after site check; L/C at sight
- Supply Ability: 12000 Square Meters per Month for two storey structures



Product Specification

- Span Width: 30m
- Length: 50m (10 Bays Of 5m)
- Ground Floor Eave: 4m
- Upper Floor Headroom: 3m
- Floor Area: 1500 Square Meters Per Level
- Area Per Guest: 1.2 To 2 Sqm Per Level, 750 To 1250 People
- Main Frame: Engineered Column 259 X 113 X 5mm Class, Set By Two Floor Calculation
- Base Plate: 350 X 350mm Hot Dip Galvanised Steel
- Second Floor Deck: Steel Deck On Primary Steel Beams, 250 Kg/sqm Live Load
- Stairs: Two 1.2m Steel Flights, 45 Degrees, 1.1m Handrail
- Structure Standard: EN 13782 Temporary Structure, Structural Report Supplied
- Frame Life Span: 20+ Years

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Product Description

30m x 50m two storey marquee building

1500 sqm downstairs and 1500 sqm upstairs on the same plot. Built for car fairs, expo pavilions and site offices where land is expensive and the event is short.

Details

The upper level is not a mezzanine hung from the roof. It is a steel deck on primary beams spanning the 5m grid, carried by columns sized for two floors plus the roof - roughly 4.5 times the vertical load of a single storey event tent column.

Area guide: 1.2 to 2 sqm per guest per level, so 750 to 1250 people per floor.

Most clients put heavy exhibits below - a truck, a machine, a boat - and take meetings and hospitality upstairs. The deck handles 250 kg/sqm, which is people and furniture, not a 4 tonne machine.

Size range and options

Span: 30m. Two storey available from 15m to 40m.

Length: 50m, any multiple of 5m.

Heights: 4m ground eave, 3m upper headroom, 3.6m at crown.

Access: two stair flights, or one stair plus an external escape stair on the gable.

Extras: guardrail with 100mm vertical infill, insulated deck, fire lining, glazed office partitions, HVAC.

Main components

Frame. Columns and beams calculated for two floors and roof load, in the 259 x 113 x 5mm class and larger. Galvanised connectors, 350 x 350mm base plates. 20+ years.

Deck. Steel deck, 100mm insulation, 22mm plywood, finish floor on request. Live load 250 kg/sqm, 1 tonne point load on 300 x 300mm.

Covers. 900gsm PVC roof to DIN 4102 B1, 650gsm walls. Flame retardant lining and 30 minute stair partitions available.

Specification

Item	Specification
Footprint	30 x 50m, 1500 sqm per level
Heights	4.0m ground eave, 3.0m upper headroom, 3.6m at crown
Frame	Engineered column section for both floors plus roof
Deck	Steel deck, 100mm insulation, 22mm plywood, 250 kg/sqm live load
Stairs	Two 1.2m flights, 45 degrees, guardrail with 100mm vertical infill
Foundations	Concrete pads 500 x 500 x 500mm with M20 anchors
Frame life	20+ years

What we will not sign

A single storey tent on ballast is normal. A two storey structure on ballast is not something our engineer puts a stamp on. Columns land on concrete pads, or on an existing slab with chemical anchors at 300mm embedment, and we ask for soil bearing of at least 100 kPa.

Fire is a different question with two floors. B1 fabric, flame retardant lining and 30 minute stair partitions are usually required, plus detection on both levels. We supply the fabric certificates for the fire engineer's file; approval is the local authority's call.

Production and installation

25 days production after deposit and foundation drawing approval, plus freight. Eighteen workers, 15 to 18 days, with one crane day for the deck lift. *Installation is quoted separately: labour, air tickets, visa, food and accommodation are paid by the buyer. Send us the site address and we confirm crew size, days and cost.*

FAQ

Can the upper floor take machinery? Not standard. 250 kg/sqm is for people and furniture. Tell us the machine weight and we design a local steel sub frame.

How long does it stand? Clients run these for two to five years. Re-tension fabric annually and inspect anchors after every storm season.

Is a lift possible? Yes, as an external shaft in the gable bay, quoted per project with the local lift supplier.

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