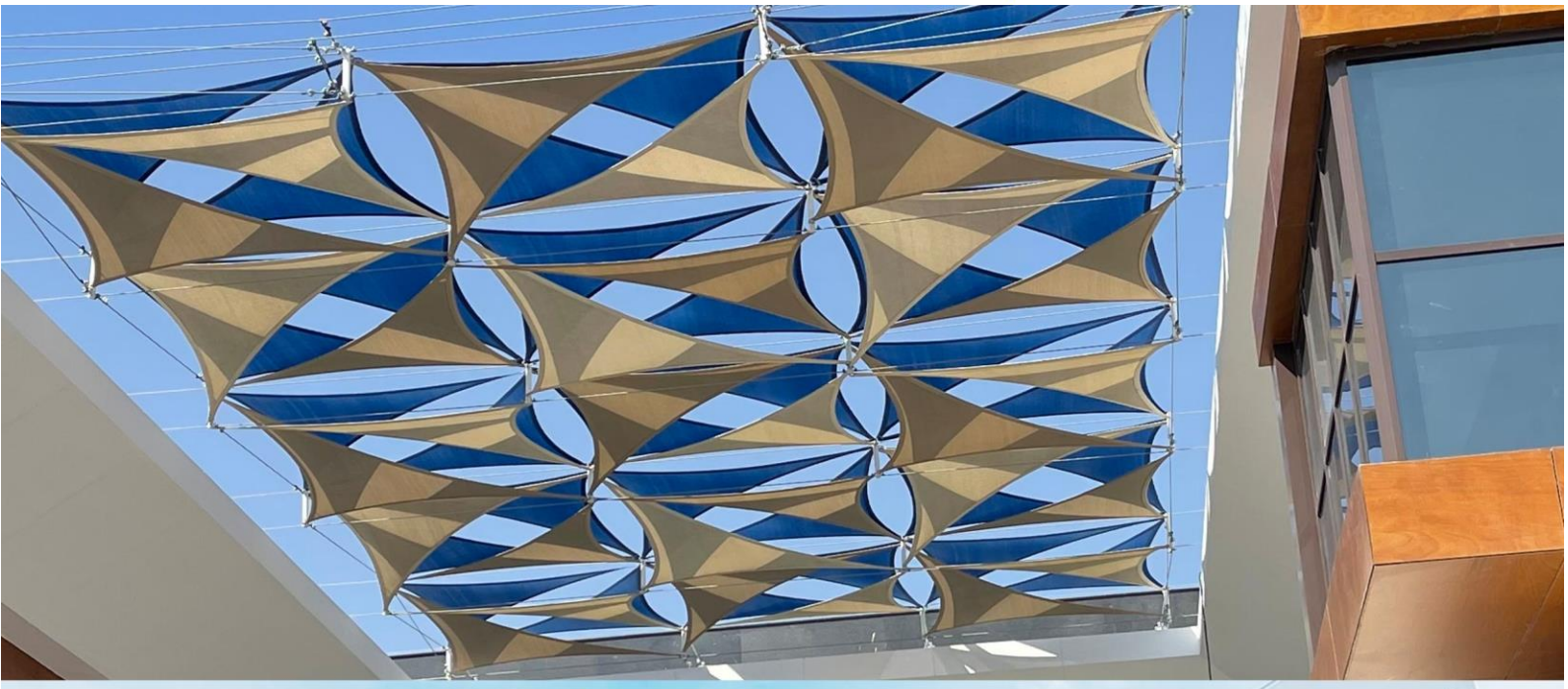
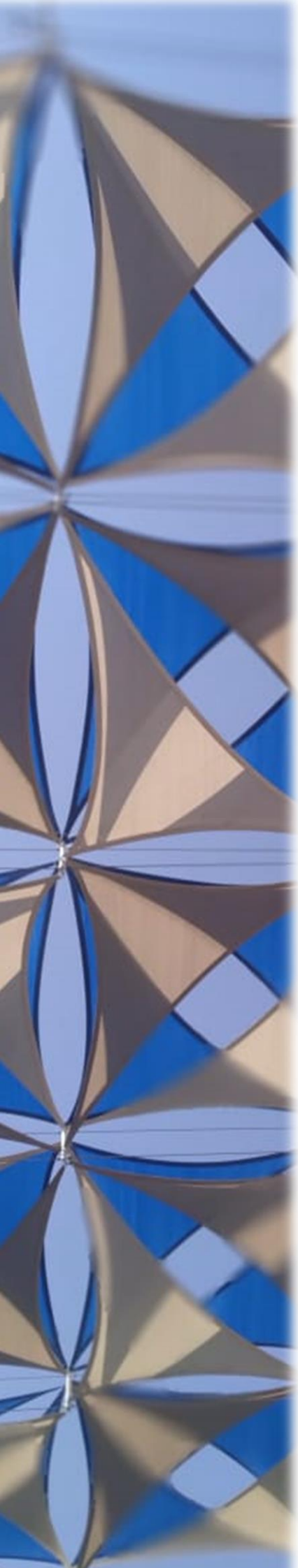


ازوف لصناعة الخيام و المظلات ذ.م.م

AZOV TENTS & SHADES IND. L.L.C.

Prequalification



Contents

Introducation

Azov Tents & Shade Ind. LLC, established in 1996 in Sharjah, is led by a team of seasoned professionals with extensive experience in shade structures, tensile membranes, and architectural awnings in the UAE. Over the years, we have earned a solid reputation for designing, fabricating, and installing high-quality shade solutions across the United Arab Emirates.

We offer a diverse range of standard designs for car parking shades and are pleased to accommodate custom architectural requests. Our team thoroughly assesses each project to recommend the most suitable shade solutions, with a strong emphasis on sustainability through the use of eco-friendly materials and energy-efficient designs.

Our commitment to quality and meticulous attention to detail set us apart in the industry. Beyond unique car park shades, our expertise extends to installing shades for:

- Swimming pools
- Children's play areas
- Schoolyards, office courtyards, and recreational spaces
- Event venues and outdoor gatherings

At Azov Engineering, we prioritize safety and durability, ensuring our structures are built to withstand the region's climatic conditions. Our dedicated team provides exceptional customer service, guiding clients through every step of the design and installation process.

We look forward to collaborating with esteemed clients to create innovative and functional shade solutions that enhance both aesthetics and utility.

Our Mission

At Azov Tents & Shade Ind. LLC, our mission is to provide innovative and high-quality shade solutions that enhance outdoor spaces while prioritizing sustainability and customer satisfaction. We are committed to delivering exceptional design, fabrication, and installation services, ensuring every project reflects our dedication to excellence and attention to detail.

Our Vision

Our vision is to be the leading provider of shade solutions in the UAE, recognized for our innovative designs and superior craftsmanship. We strive to create a more sustainable future by promoting eco-friendly practices and materials, transforming outdoor environments into safe, functional, and aesthetically pleasing spaces for communities to enjoy.

Business Address & Contact Details:
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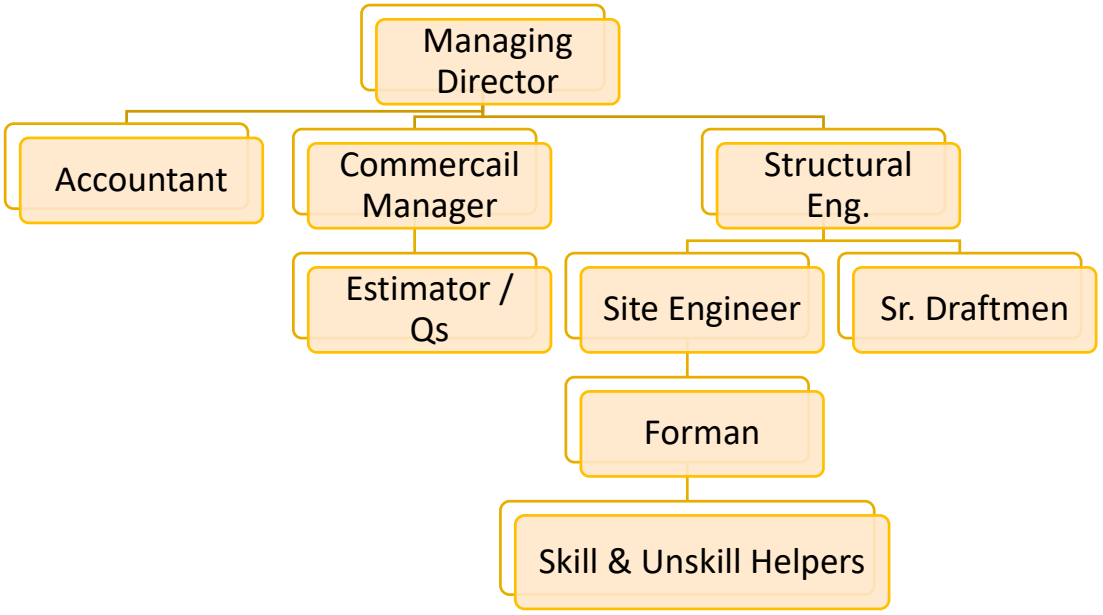
Organizational structure

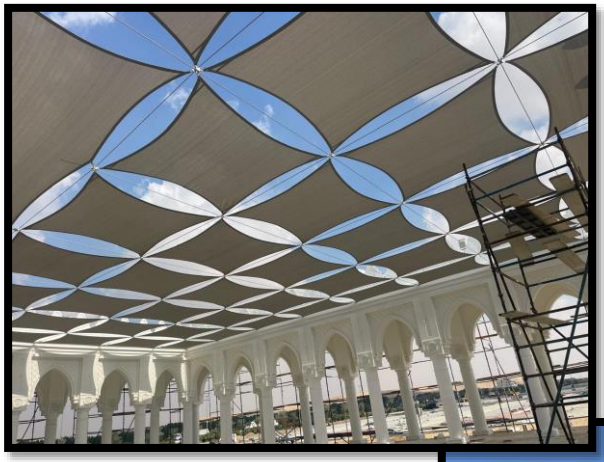


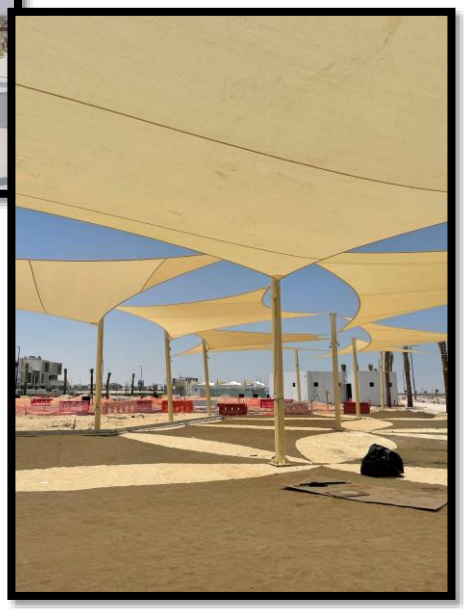
Experience and Qualifications

Completed Project relevant to shades structures

S.N	Project Name	Description
1	Al Quoz Mosque	Courtyard shade structure for Modern Executive Systems.
2	Mosque for Arabian Ranches	Courtyard shade for Emaar Properties.
3	AL Futtaim Constructions LLC for Beeah HQ - Sharjah	Shade Structures
4	H.H. Salem (Maimoon Villa)	Shade Structures
5	Emaar Properties	Play area shade at various locations.
6	Dubai Hills Development MBR City, Emaar	Various Shades Structures
7	Banyan Tree Residences, Jumeirah Lake Towers	Tensile Shade Structure
8	The Hills Project, Emaar	Tensile Shade Structure
9	Remram Housing Development for Deubai Properties	Various Shades Structures
10	Jumeirah Beach International for Desert Group	Swimming Pool shade and Play area shade
11	Nakheel	Car parking shades for various sales offices.
12	Wesgreen International School	Play Area shades at various locations
13	Dubai Women's College	Court yard shades and car parking shades
14	Fujairah Women's College	Car Parking Shades
15	Fujairah Men's College.	Car Parking Shades
16	LAGOON, Dubai Properties	Car Parking Shades
17	Jumeirah Lake Towers	Play Area shades at various locations for Al Bayader
18	Presidents Palace, Abu Dhabi	Play area shade for Al Jaber.
19	Emirates Aluminum. Taweelah Port	Court yard shade structure for Al Bayader.
20	German School, Sharjah.	Play area shade.
21	H.H. Shk. Sultan al Qasmi	Car parking shades and play area shades
22	Foremarke School, Dubai	Play area shades at various locations
23	Hotel Ritz Carlton, Dubai Marina.	Play area shade for Desert Group
24	Za bee I Palace	Car parking shades for Khansaheb Civil Engineering
25	CASA PARK, Arabian Ranches 2.	Pool Shade and kids play area shade
26	H.H. Sheikh Rashid Palace Fujairah	Car Parking Shade and Swimming Pool Shades
27	Al Barsha Pond Park	Play Area Shades Dubai Municipality
28	Discovery gardens, Dubai	Play area shades for Al Naboodah Engineering

Photos of Completed Project relevant to shades structures.





Photos of Completed Project relevant to shades structures.

Photos of Completed Project relevant to shades structures.

Photos of Completed Project relevant to shades structures.

Photos of Completed Project relevant to shades structures.

Quality Assurance and Quality Control (QA/QC) Procedures

1. Fabrication of Steel Structure

Raw Material Inspection

Conduct a thorough inspection of all raw materials, ensuring compliance with quality standards and dimensional specifications as outlined in the approved shop drawings.

Check for any physical defects, including corrosion, warping, or deformation. Reject materials not meeting quality standards to prevent structural weakness.

Main Mast Pipe Cutting

Cut pipes to the exact length and angle detailed in the shop drawing using oxy-acetylene gas in accordance with BS 5950 standards.

Prior to measuring, calibrate all measuring devices to ensure accuracy. Record calibration details for QA/QC records.

After cutting, inspect the pipe ends for squareness and any burrs that could interfere with welding or assembly.

Edge Preparation for Welding

Grind the cut edges to remove all burrs and sharp edges. Prepare the edges for full penetration butt welding, ensuring a smooth finish that will facilitate a quality weld.

Verify the edge preparation quality with visual inspection and, if necessary, additional non-destructive testing (NDT) methods.

Base Plate Cutting and Preparation

Cut the base plate to the specified dimensions and thickness as outlined in the approved drawings using oxy-acetylene gas.

Calibrate measuring equipment before each use, and maintain calibration logs for traceability.

Grind the edges of the base plate to a 4mm radius, removing any sharp edges to reduce the risk of stress concentration during installation.

Anchor Hole Marking and Drilling

Mark anchor hole positions on the base plate with a center punch and metal punch for precision.

Drill the marked holes using a vertical drill press, then counter-bore the holes to a 4mm radius to prevent sharp edges that can cause cracks or premature wear.

Base Plate Welding

Securely weld the base plate to the main column using a full penetration butt weld with a 4mm electrode, taken directly from a heated storage oven.

The orientation of the weld should match the approved shop drawings exactly. Ensure welding is completed only by certified welders per BB5135 standards, with periodic inspections of weld quality using visual and ultrasonic testing (UT) methods as required.

Cleat Fabrication and Attachment

Cut cleats to the specified shape and size according to the shop drawings, using an oxy-acetylene profile cutter.

Grind all cleat edges to a 4mm radius to ensure a smooth, rounded finish. Drill holes in the cleats as per the drawing, countered to a 4mm radius to prevent stress concentrations.

Weld cleats to columns using penetration butt welds, following BS 5135 guidelines. Conduct quality checks on welds to ensure conformity and strength.

2. Fabrication of Fabric Membrane

Measurement and Development

Take exact measurements of the fabric to be used, based on the dimensions of the erected structure. Utilize a finite element analysis (FEA) package to develop a form that matches the membrane profile specified in the shop drawing.

Confirm that the contour lines of the membrane form allow for adequate drainage, with no areas where water can pool.

Fabric Stress Testing

Test the membrane fabric for tensile strength under different wind load scenarios as specified. Select fabric material that can safely carry the calculated stresses, applying a safety factor of 5.

Document all stress test results and ensure they comply with design standards before proceeding to fabrication.

Pattern Extraction and Fabric Cutting

Extract patterns from the developed form with appropriate allowances for seam width, particularly in high-stress areas.

Cut the fabric as per the extracted patterns, ensuring alignment with the direction specified in the pattern design. Record and label each piece for easy assembly.

Reinforcement at High-Stress Points

Add double layers of fabric or additional reinforcement at all corner connection points and high-stress areas. These reinforcements should match the approved design to ensure durability under load.

3. Erection Procedures

Site Survey and Column Location Marking

Conduct a precise site survey to determine the location of steel column centers, marking each point accurately as per the approved shop drawing.

Re-verify measurements after marking to confirm alignment with the project layout.

Chemical Anchor Bolt Installation

Install chemical anchor bolts in the slab following the approved method by Hilti (Method Statement attached), in accordance with the location and specifications shown in the shop drawings.

For building wall installations, position anchor bolts as specified and adhere to approved drilling and installation techniques to ensure stability.

Steel Column Installation

Position steel columns onto the anchor bolts only after the recommended curing time for the chemical anchor. Tighten the nuts, ensuring a slight rear camber for stability as specified.

Check the column plumb and orientation using calibrated levels, making adjustments as necessary to meet design specifications.

Fabric Attachment to Columns

Secure one end of the fabric membrane to the steel column with rated shackles, confirming the shackle rating is suitable for the anticipated loads. Attach shackles as specified in the shop drawing, ensuring a secure and safe connection.

Move to the diagonally opposite side and follow the same attachment procedure, ensuring the fabric is taut and correctly aligned.

Membrane Tensioning with Chain Block

Attach a 2-ton chain block to the third steel column and fabric loop, tensioning the chain block until the fabric is close enough for shackling.

Continue this process for all fabric loops, progressively tensioning the membrane to achieve uniform tension across the structure.

Final Quality Checks and Torque Verification

Re-confirm that all shackle pins are tightened to the specified torque. Conduct a final inspection of the entire membrane structure for uniform tension and proper attachment.

Document all inspection results and make any necessary adjustments to ensure full compliance with project specifications

Operation And Maintenance Manual

A. Maintenance Instructions - Steel Frame

Annual Inspection

- Conduct a thorough inspection of the steel frame annually. Focus on identifying and rectifying any defects, particularly on painted surfaces.

Surface Preparation and Painting

- Clean any affected areas mechanically using a wire brush to remove rust, dirt, or loose paint.
- Apply one coat of Jotomastic to the cleaned area to protect against corrosion.
- After 12 hours, apply one coat of polyurethane paint to provide a durable, weather-resistant finish.

B. Maintenance Instructions –Fabric

Cleaning

- Routine maintenance of the fabric is minimal. Clean by hosing down with water.
- Avoid using strong detergents or chemicals, as these can damage the fabric material.

Oil Stain Removal

- To remove oil deposits, use a dry cloth dampened with methyl alcohol and gently wipe the area.

C. Maintenance Instructions – Fasteners

Annual Inspection for Rust

- Inspect all fasteners annually, focusing on signs of rust or corrosion on stainless steel surfaces.
- If rust is found, clean the area thoroughly with a wire brush to restore the surface finish.

D. Maintenance Instructions – Foundation Bolts

Biannual Inspection for Rust

- Inspect foundation bolts every six months for rust or corrosion.
- If rust is found, clean it with a wire brush, then apply a layer of grease to protect the bolts.
- Wrap the greased bolts with Denso tape to seal out moisture and prevent further corrosion.

References

Client references from previous projects

GCL الخليج للمقاولات والبستنة
GULF CONTRACTING & LANDSCAPING
A Member of Al Khayyat Investments LLC

خانصاحب KHANSAHEB

aki

BANYAN TREE RESIDENCES
—HILLSIDE DUBAI—

النابودة
Al Naboodah

NAKHEEL

EMAAR EMAAR

ديزرت جروب
Desert Group

DUBAI PROPERTIES

Wesgreen International School

كلّيات التقنية العليا
HIGHER COLLEGES OF TECHNOLOGY
Dubai Women's College كلية دبي للطالبات

ماجد الفطيم
MAJID AL FUTTAIM

Approval References from Previous Projects