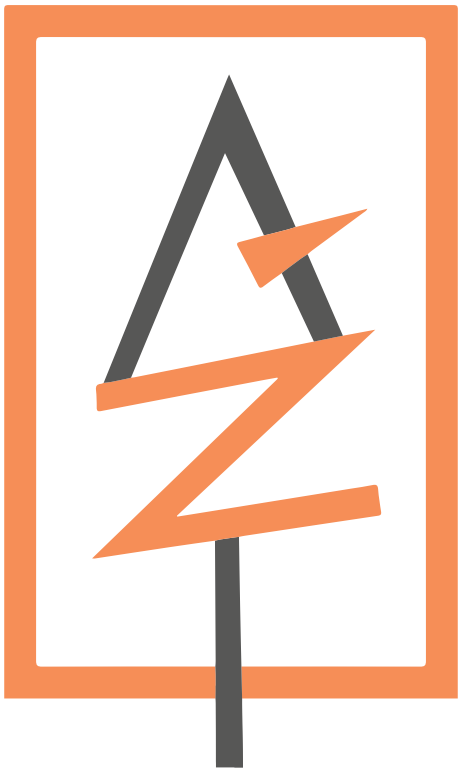
WEATHER SHIELD

CAST YOUR DREAM SHADOW



AL ZAINI TRADING

Al Zaini Trading | **PO Box** 9911 | Doha - Qatar

+974 3347 5999 | +974 5096 2299 weathershieldqatar weathershieldqatar

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UNIQUE
TENSILE DESIGNS

INTRODUCTION

Weathershield was established and founded in 2019 in Qatar, but the Weathershield team has more than 15 years' individual experience in tensile structure works industry. In this profile you will only see photographs of all the works our designer has directly been involved in.

We aim to build a solid name and reputation for Weathershield by designing, fabricating and installing the best shaded structures all over Qatar.

Our team will work with the aim of satisfying all our client needs. This starts with sales, marketing, and concept designing. Followed by the engineering, fabrication, coating, installation & ultimately the warranty on handover the project.

We have a wide variety of standard designs for shades and tents of any size for your quick options and price inquiry. But we welcome enquiries for custom/concept designs that will fulfill our client's creative and practical needs. We carefully analyze each requirement, understand each project thoroughly and recommend the best solution for our client's needs as per their exact specifications.

At Weathershield, we can build according to your architecture with efficiency, quality, and a suitable price at a minimum time duration.

Arun Varghese
Creative Head

HSE POLICIES

Weathershield will perform all activities pertaining to Construction and Production Engineering with the commitment to:

• Provide a healthy work environment for all employees to conduct their roles & responsibilities.

• Provide training to all employees to ensure they understand the hazards and the appropriate controls including policies, procedures and practices.

• Ensure a safe workspace for all employees and others who are directly or indirectly under the sphere of influence of **Weathershield**.

• Protect the environment by minimizing the impacts of our day to day activities related to constructions and production engineering

• Foster a workshop environment where continual improvement and learning from our mistakes are embraced by all employees.

• Abide by all the regulations of the State of Qatar.

• Monitor health, safety & environment (HSE) performance by utilizing audits, inspections and management reviews with the active participation of all employees.

• Meet or exceed HSE Objectives.

• Communicate HSE policy to interested parties and make it available in public in the work place.

SCOPE

DESIGN - Concept Designs | 2D & 3D Detailing

ENGINEERING - Structural Calculation

FABRICATION - Steel & Fabric

INSTALLATION - Foundation (Civil Works) | Execution

MAINTENANCE - AMC (Contract)

APPLICATION

Stadium | Play Area | **Drop Off Area** | Courtyard | **Entrance Area** | Garden/Sitting Area | **Walk Way** | Outdoor Window Shade | **Sky Dome Cover** | Parking | **Swimming Pool Area** | Store (Receiving, Packing, Loading & Unloading Area) | **Agriculture Store** | Green House | **Aviation Hangar** | Dairy/Poultry Farm Etc | **Security & Privacy Fencing** | Sail/Yacht (Marine Area) | **Petrol Pump/Service Station** | Pergola (Indoor/Outdoor).

You can find some examples of the above in the following pages.

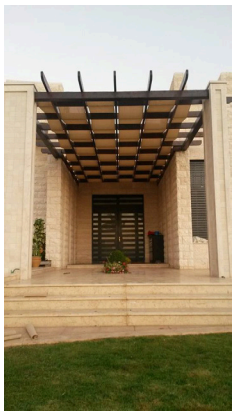
GALLERY

Arch

Unipole

▲ Conical

Courtyard Shade



GALLERY

▲ Pergola

▲ Sail

Umbrella



Pyramid

More images and examples of previous works can be provided up on request.

Tensile Arch



Truss Arch


Truss

BRANDS WE USE

MEHLER TEXNOLOGIES
A Low&Bonar solution

Serge Ferrari

SIOEN

polyfab™ Australia

naizil® COATED FABRICS

GALE PACIFIC

Today's innovative tensile fabrics can be broadly categorized into coated and mesh fabrics. Coated tensile fabrics are made with a woven cloth fabrics that are stabilized with a protective a coating in all directions. While mesh fabrics are also a type of coated cloth, there are small spaces between the thread bundles and are thus more common among interior sun-shading applications.

Two of the most common coated fabrics are Poly Vinyl Chloride (PVC) coated polyester and Poly Tetra Fluro Ethlene (PTFE) coated glass cloth.

We have worked with and deal with all major manufacturers to ensure our clients get the best fabric most suited to their requirements - be it technical or aesthetic.

FABRICS WE USE

HDPE (High Density Polyethylene)

HDPE (High Density Polyethylene) fabric is a cost-effective material designed for modular canopy and sail structures. HDPE is ideal for shade structures because it does not deteriorate from chemicals, mildew, rot, or sun The HDPE shade net has tiny holes that allow hot air to escape through the roof of the structure.

HDPE mesh is a heavy duty knitted shade cloth designed for tensile membrane, shade structures and shade sails awnings designed for commercial and architectural applications where fabric is placed under large pre-stress.

FABRICS WE USE

HDPE (High Density Polyethylene)

Features – Strong HDPE fabric won't rot or absorb moisture. It carries a 10-15-year UV degradation warranty. Engineered to offer the ultimate combination of maximum sun protection, strength and durability guaranteeing 15 years of trouble-free long-life performance in extreme weather conditions.

UV Protection – HDPE been specifically designed and constructed to provide UV block up to 98% creating safer outdoor environments which can be utilized for longer periods.

Knitted Lock-Stitch Construction – The combination of monofilament yarn and tape produces dimensionally stable fabric that offers high levels of tear and fray resistance.

Heat Set - HDPE undergoes an advanced stentering process that heat sets the fabric to deliver a pre-shrunk, highly stable material of great consistency.

Waterproof - Shade cloth fabric is a Synthesis Knitted HDPE monofilament & tape (with LDPE coating) water proof shade fabric offering a UVR block up to 98.7%

Fire Retardant – HDPE FR is designed to suit a wide range of architectural and small-scale structural applications. It’s a safe choice for tension structures, awnings and shade covers in commercial and architectural applications. Made from a flame-retardant fabric, HDPE FR is stringently tested and conforms to a number of global FR standards, including California State Fire Marshall (CSFM) approval. The specialized lock stitch knit is made from stabilized yarn and is constructed to block up to 95% of harmful rays.

FABRICS WE USE

PVC (Polyvinyl chloride)

Polyvinyl chloride (PVC) coated polyester, is the most commonly selected material for tensile membrane structures. PVC is chosen for its excellent strength, water proof properties, flexibility, transparency, and durability. It is the most cost-effective and versatile tensile fabric, and meets a large range of colour and application needs, both permanent and temporary. PVC is treated to be stain, fire and UV resistant.

Life span - The approximate design life of PVC coasted polyester fabric is 15-30 years, depending on grade of PVC selected, location, and exposure to environmental pollution. PVC fabric warranties can range anywhere from 5 to 15 years, depending on the supplier and application.

Solar Transmission - PVC fabric reflects around 89% of solar energy, allowing 9% visible transmission through the fabric. The rate of transmission is dependent on the colour of the fabric, coatings, printings and environment. These coatings can contain anti-fungicides. Therefore, the stronger the self-cleaning properties of the fabric, the less light transmission is interrupted by dirt adherence and aging of the fabric.

FABRICS WE USE

PVC (Polyvinyl chloride)

Applications - PVC polyester is used on structures all over the world and in every environment. Applications include: covered walkways, car park structures, entrance features, outdoor classrooms, play areas, sport court enclosures, swimming pool enclosures, and event spaces.

PVC is a strong fabric that can be folded, making it ideal for retractable and temporary structures such as tents, warehouses, remediation, and mining structures, which need to be demounted and stored often.

With the ability to print on the fabric with ease, PVC is often used in projects where branding is important.

Sound Absorption - PVC can be altered to manipulate the sound absorption rate of the structure. Various coatings can be applied to PVC dependent on the requirements of the structure. For example, an indoor aquatic centre will use PVC that has been specifically treated to absorb as much sound as possible, while a small room or area will benefit from strong acoustic retention.

Maintenance - PVC coated polyester is low maintenance, although it requires more frequent maintenance than self-cleaning PTFE and ETFE. Frequency of cleaning is dependent on the location of the structure, exposure to environmental pollutants, and the coating on the fabric. Lacquers and other coatings can be added to the fabric to significantly increase the lifespan, and decrease the need for maintenance.

Sustainability - PVC is classed as a recyclable fabric, and is therefore an increasingly popular choice for green building as an alternative to rigid roofing. Although there are many processes of recycling PVC, the most common practice involves melting down the fabric to be reproduced. The process does not affect the lifetime of the recycled PVC.

FABRICS WE USE

PTFE (Polytetrafluoroethylene)

PTFE is a high quality woven fibreglass membrane coated in Teflon (Polytetrafluoroethylene), and is an ideal fabric for tensile membrane structures. PTFE fabric is high quality, weather, fire and UV resistant, and extremely durable. The Teflon coating creates a smooth surface that allows the fabric to be 'washed' by the rain, reducing the need for frequent cleaning. The membrane behaves elastically under normal conditions, does not creep or stress relax, and has a life expectancy exceeding 30 years. A standard PTFE warranty ranges from 12-15 years.

FABRICS WE USE

PTFE (Polytetrafluoroethylene)

PTFE is highly reflective, making it ideal for shade structures, as it can withstand high temperatures (-73°C – 232°C) without transferring much heat. This is the defining feature of PTFE that differentiates it from conventional glazing. Testing has indicated that up to 80% of solar energy is reflected, with an 8% rate of absorption by the fabric itself. Some grades of PTFE however, can absorb up to 14% of solar energy, allowing a 12% rate of transmission through the fabric.

PTFE can be spot-welded, or sewn which creates excellent fabric strength, and removes the concern of creases and splitting as a result of repeated folding and flexing of the material by improving durability.

Lighting - PTFE fabric has the ability to evenly disperse light, restricting the need for artificial lighting during the daytime, and creating an environment in which indoor plants and flora can survive.

Sound Absorption - Given the air permeability and flexibility of PTFE, it has tremendous sound absorption properties. External noise is capable of being isolated to meet the noise criterion of various buildings, while reverberation is directly relative to the internal size of the structure. Acoustics are clearly enhanced for smaller rooms, and can be treated to accommodate larger scale environments such as stadiums and aquatic centres.

Maintenance - PTFE fabric is a low maintenance option that still offers exceptional quality, strength and a long lifespan. UV light bleaches the fabric, generating a bright and clean aesthetic. The self-cleaning properties created by the Teflon coating allow the fabric to resist moisture and remain clean and bright after installation.

STEEL FABRICATION

Our Services include the fabrication and Installation of structural and miscellaneous steel, equipment components, hoppers, plate work, material handling equipment and bridge girders.

The Steel fabrications industry has entered an area of accelerated change. Weathershield is staffed and equipped to meet this challenge. We are committed to operate on leading edge of technology and manpower training. We are also utilizing continuous improvements in techniques to ensure that our practices are effective, efficient and economical.

SAND BLASTING, PAINTING

With our facilities, our factory has the space and power to accommodate almost any industrial metal surface preparations/painting project. We are housed with blast booths which can operate simultaneously or be instantly converted into a single large blasting room. The blast booths have an EPS approved containment systems. Because every stage in blasting and coating process takes place under one roof, we can offer our client quick turnaround on every project.

We specialize in low VOC applications including enamels, epoxies and high temperature paints. Our duel media blast operation, using steel grit or glass bead, can prepare carbon steels, alloy steels and even motorized equipment for paint.

Weathershield uses quality paint material from international paint companies. Surface treatment is done according to project specification and SSSP standards. Subsequently, coating is done using skilled and qualified painters.

Type of Coatings:

+ Painted Surfaces
+ Galvanized Surfaces
+ Powder Coated Surfaces

The coating process includes:

+ Surface cleaning
+ Applying primer, intermediate and final coats
+ Checking Dry Film Thickness (DFT)
+ Release for packaging and delivery.

THANK YOU

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FIND US: weathershieldqatar weathershieldqatar

CALL US NOW: +974 3347 5999 | +974 5096 2299