ADVANCED FIBERGLASS
INDUSTRIES
DUBAI

ADVANCED FIBREGLASS INDUSTRIES

CUSTOM BUILDERS WITH COMPOSITE MATERIALS

www.afi.ae

COMPANY INTRODUCTION

Advanced Fibreglass Industries (AFI) is a UAE based supplier and manufacturer of advanced composite components for Architectural Design, Theming, Transportation and Military markets.

The company was established in 1997 and brings with it more than 30 years of global knowledge and experience in manufacturing composite components, with a vision to build lightweight components, offering an unrivalled quality of product as well as an internationally renowned expertise in advanced composites construction. Working across a diverse range of industry sectors, we have become the partner of choice for clients who include international architects, military and leading marine companies.

Headquartered in Dubai, our factory in Al Qouz 2 encompasses a 3,250m^2 facility with highly experienced technical staff and operators. We have onsite a 100% Climate controlled and Safety Compliant Cleanroom, Paint Booth, Post Curing oven and Sandblasting facilities.

Our corporate team operates onsite and consists of design engineers, project managers, purchasing, finance, HR, HSE and marketing department.

We are confident that you will find Advanced Fibreglass Industries able to manufacture, repair and supply anything involving fibreglass.

At AFI we work with our customers and suppliers in adopting best practices in reducing waste, water wastage and raw materials – taking the necessary precautions to prevent pollution of the environment.

ADVANCED FIBREGLASS INDUSTRIES IS A PROUD ISO 9001:2015 CERTIFIED COMPANY.

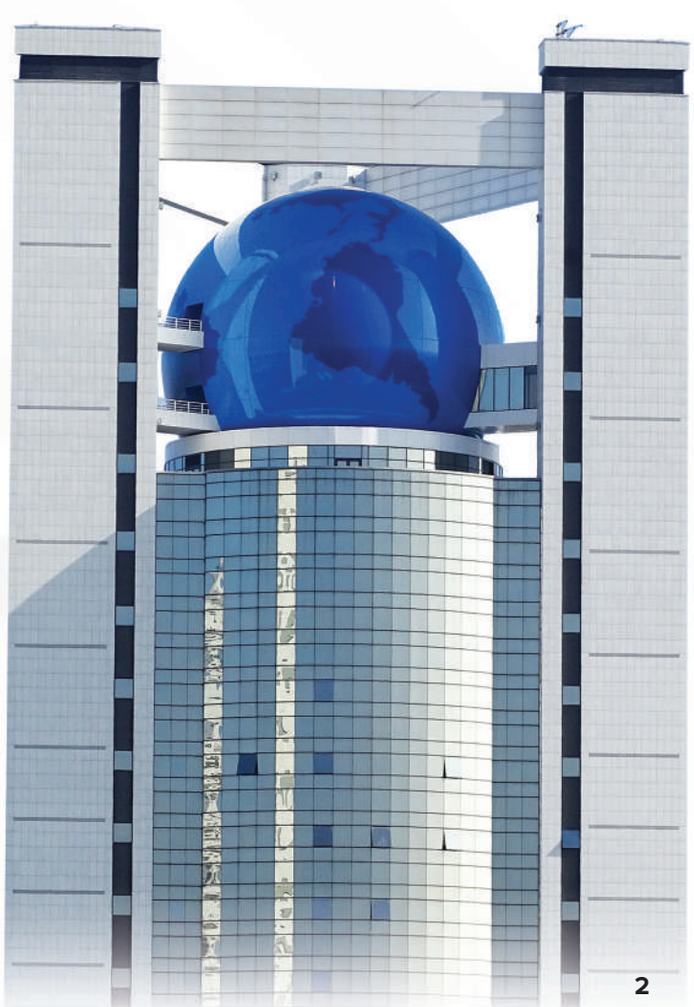
TÜVRheinland®
CERTIFIED

Management System
ISO 9001:2015

www.tuv.com
ID 9108639889

COVER DESCRIPTION

MINISTRY OF FOREIGN AFFAIRS TURKMENISTAN – 26M SPHERE



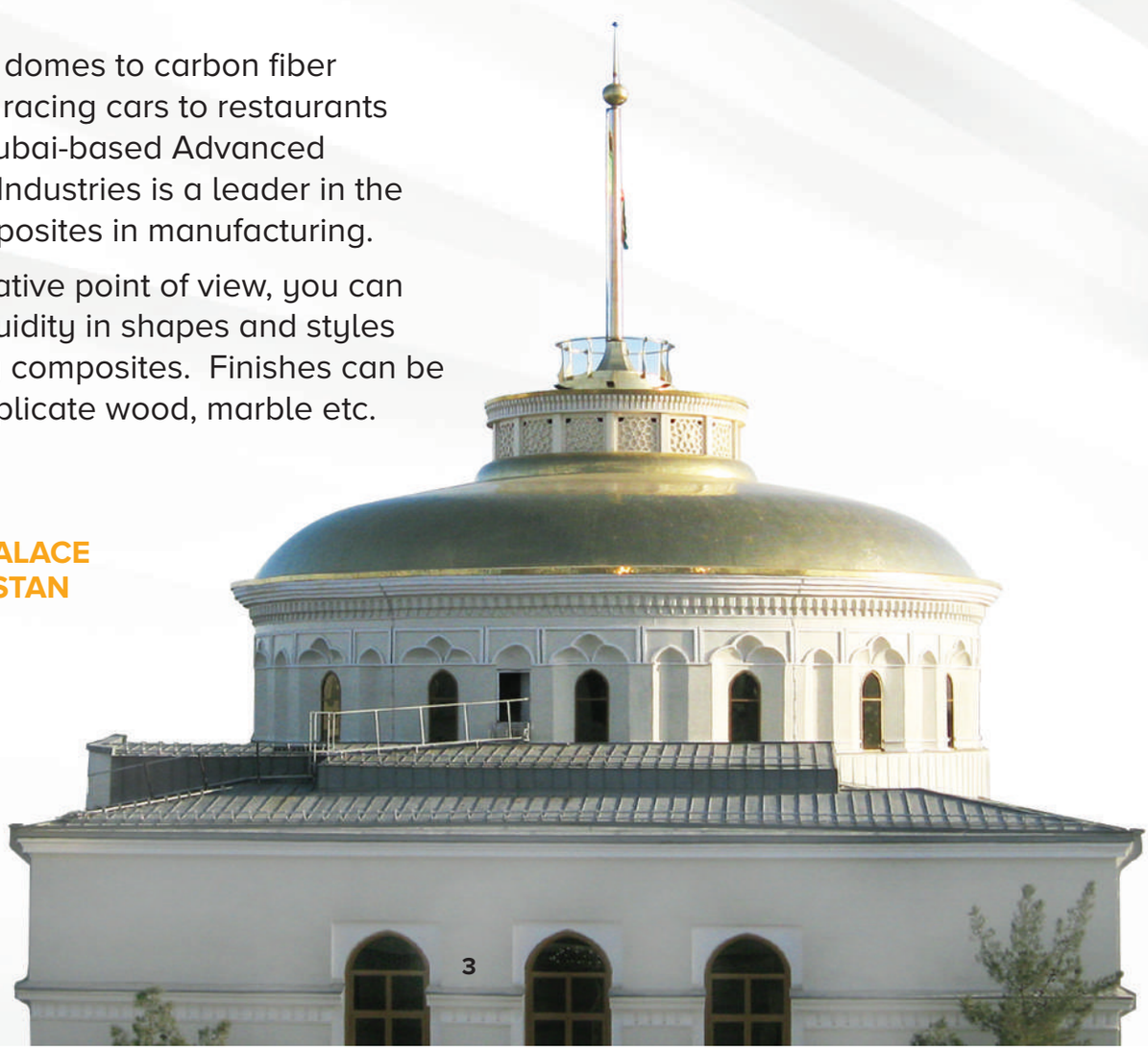
The 16-storey skyscraper in Ashgabat has a 26-m diameter spherical conference room at its top, decorated with a map of the world made using mosaic tiles.

The sphere is made of more than 300 double curvature composite panels bolted together and supported by a metal substructure. Thanks to the use of sandwich technology, the weight of the panels was kept low, ensuring quick, easy installation on site.

ARCHITECTURE EXTERIOR

From large domes to carbon fiber sculptures, racing cars to restaurants interiors, Dubai-based Advanced Fibreglass Industries is a leader in the use of composites in manufacturing.

From a creative point of view, you can get more fluidity in shapes and styles when using composites. Finishes can be made to replicate wood, marble etc.



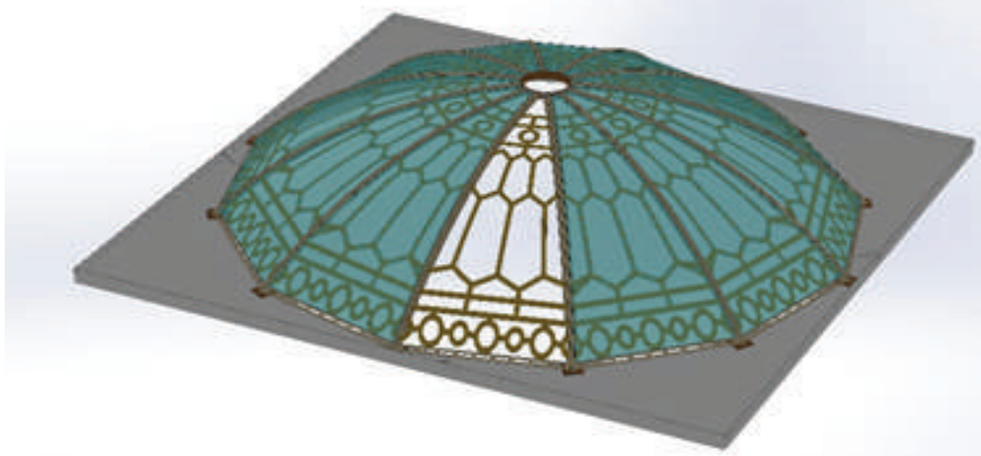
ANCIENT PALACE
TURKMENISTAN

ARCHITECTURE EXTERIOR

Composite Domes are extremely hard wearing, lightweight, and self-supporting structures made from a sandwich of glass fibre and epoxy resin composites with a thermoplastic, structural core.

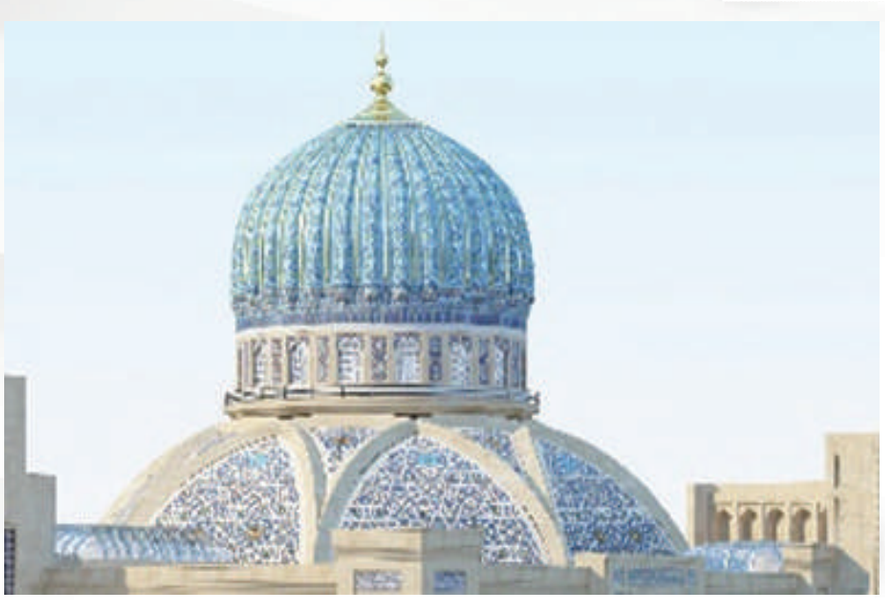
DOME – CONGRESS CENTRE TURKMENISTAN

ARCHITECTURE EXTERIOR



EMIRATES HILLS- VILLA DECORATIVE DOME (6 m dia)

Composites are unique for their design flexibilty and durability. Have an exceedingly long life span and low maintenance requirements .



The Construction of the Islamic Center of Civilization of Uzbekistan's Dome has 392 panels which makes 26-m diameter Dome and basedome Arches.
This is an architectural exterior facade which was viable due to the unique characteristics of composites. Weight of the panels was kept low, ensuring quick and easy installion on site.

ISLAMIC CENTER OF CIVILIZATION - UZBEKISTAN

ARCHITECTURE EXTERIOR

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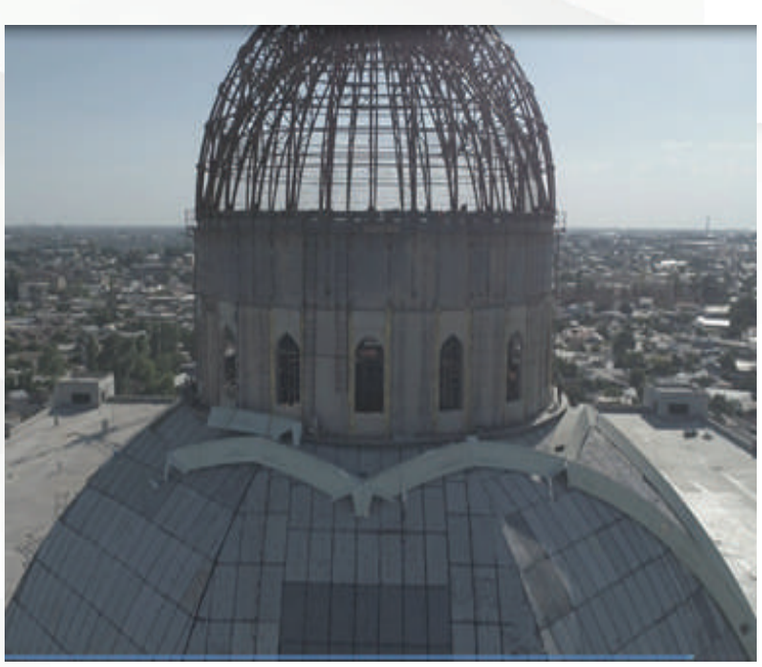


ISLAMIC CENTER OF CIVILIZATION - UZBEKISTAN

ARCHITECTUAL INTERIORS

Evolutes
by Karim Rashid

Egyptian-born artist, Karim Rashid has an international reputation as one of the most prolific designers of the 21st century. with works displayed in over 40 countries across the world.

'Evolutes' was created using a unique highly reflective organic coating blended with natural stones, in a transparent UV - resistant epoxy system. The sculpture comprises a single span winding and intertwining around itself, providing viewers with a unique perspective from every vantage point.

EMAAR

THE EVOLUTE – BURJ KHALIFA, DUBAI

ARCHITECTUAL INTERIORS

The wonders of composite materials... Advanced Fibreglass Industries has experience of using aviation and boatbuilding technologies in architecture and interior design. AFI offers high quality “plug and play” solutions.

The seamless finish on the walls which were built one by one at the AFI manufacturing facility, and finished on site. No joints are visible to the naked eye.

SWITCH RESTAURANT DUBAI MALL

“THE BEAUTY OF WORKING DIRECTLY WITH ARCHITECTS IS THAT WE CAN TAKE THEIR CREATION AND HELP THEM ADVANCE IT WITH AEROSPACE STYLE MATERIAL AND CONSTRUCTION METHODS.”

ARCHITECTUAL INTERIORS

Composite is lighter than concrete, so therefore it requires less, if any structure. The product can be built in a factory, transported and assembled on site, rather than working in-situ.

CHRISTMAS BALLS

ARCHITECTUAL INTERIORS

SWITCH RESTAURANT- MIRDIFF CITY CENTER

Another High Quality "plug and play" solutions.

AFI recently completed the manufacturing the Ceiling Components, Hostess Desk, Blob and Columns.

BLOB

The use of composites helps to get more fluidity in shapes and styles. Composites are unique due to their customized characteristics.

HOSTESS DESK

CEILINGS & COLUMN

MILITARY

Defense systems have reached a higher level of effectiveness due to the increased strength, lightweight, low cycle fatigue and corrosion resistance that composites provide.

BENEFITS FROM COMPOSITES IN MILITARY APPLICATIONS:

- Weight savings
- Increased Fuel Efficiency
- Decreased Vibration
- Conforms to Complex Shapes
- Corrosion Resistant Finishes
- Aesthetically Pleasing

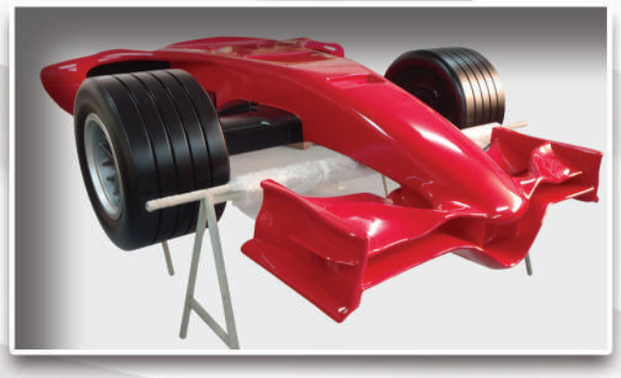
MILITARY PRODUCTS:

- Telescoping Mast Assemblies
- Antennas
- Carbon Stiffening Structures
- Ballistic Kevlar Protection
- Military Vehicles Drive Shafts
- Tactical Hand Guards and Scopes
- Bonnets

AFI'S Support is comprehensive and complete for every aspect of a project – inclusive of engineering, design, tooling, manufacturing and ongoing product analysis. Our full-service program is capable of turning any design into a manufacturing reality.

DUE TO THE SENSITIVITY OF OUR WORK, WE ARE UNABLE TO DISPLAY IMAGES

THEME PARKS



FERARRI WORLD – WORLDS LARGEST ROLLERCOASTER

DUBAI PARKS AND RESORTS

THEME PARKS

THEME PARKS AND THEMING

Backed up by the most advanced technology available, we are always ready to serve

SMURFS VILLAGE

AUTOMOTIVE

The introduction of composite in this sport has produced some dramatic changes in the racing scene for numerous reasons. The three most iconic changes are in driver safety, driver comfort, and overall performance.

AUTOMOTIVE – MOTORSPORTS

Prototyping of Shaali-N360 for an Emirati Client. Ongoing development and production. Made from e-glass epoxy vacuum system. Dubai motor company Shaali unveiled its new N360 model, at the 2017 Dubai Motor Show in Dubai
SHAALI N360

AUTOMOTIVE- CLASSICS

CARBON & MOTORSPORTS

Besides the obvious benefits of using carbon fiber composites for safety and comfort, it also has a direct connection to a major increase in performance. Carbon fibre is 5 times lighter than steel, thus there is a marked reduction in weight since the formation of the sport. These significantly lighter cars are able to manoeuvre the track more efficiently and they have a more powerful acceleration, all of which translates directly into faster laps around the track.

MARINE

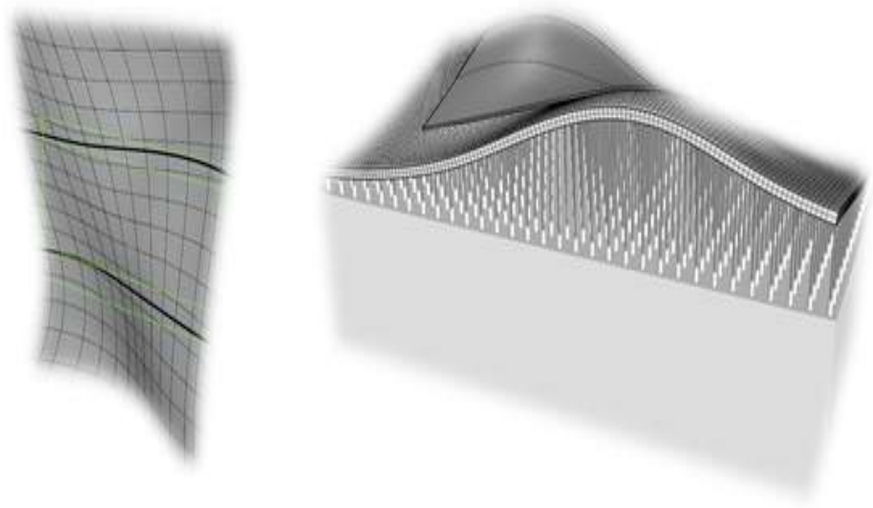
Carbon fibre has long been the construction material of choice in the aerospace and military industries, before becoming the norm in high-level yacht and auto racing.

JET PAD

The use of carbon fibre creates a much lighter vessel overall, which maximizes speed, reduces fuel consumption, allows for smaller engines and much more efficient vessel. Carbon fibre also serves as a natural sound dampening material and yields less vibration than fiberglass or aluminium.

ADAPA

AFI is currently the first in the gulf region to make use of a "Brand New Technology" known as "adaptive molding" that allows the achievement of high complexity fiber shapes, with extreme level of accuracy and minimal wastage.



ADAPTIVE MOULD TECHNOLOGY

ADAPA MACHINE

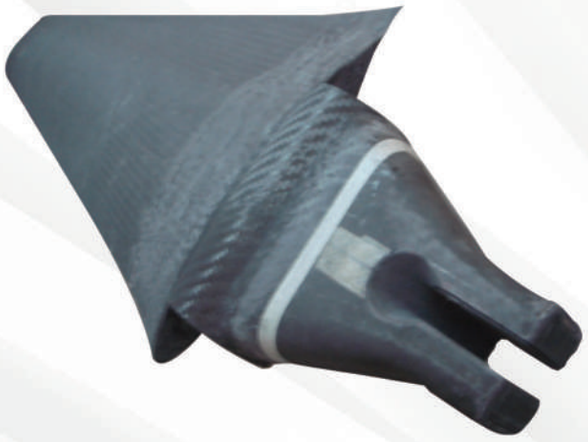
CNC-KUKA ROBOT

CNC-KUKA ROBOT

(UP TO A CAPACITY OF 15 LINEAR METER)

BESPOKE PRODUCTS

100% CARBON DIRECTORS CHAIR



BESPOKE PRODUCTS

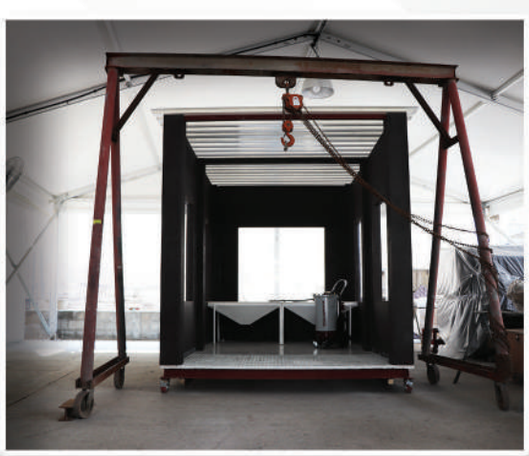
TABLEWARE

TABLEWARE

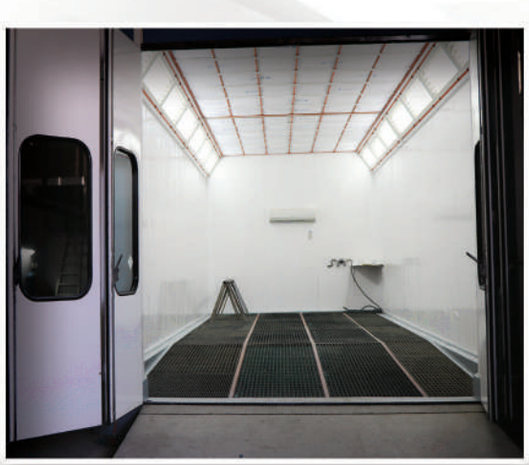
PRE-PREG CUSTOM AUTO PARTS

OUR CORPORATE TEAM

OUR CORPORATE TEAM



SANDBLASTING CHAMBER



PAINT BOOTH

CLEAN ROOM & POST CURING OVEN

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