



TAYR AL KARAWAN
AL KARAWAN SOLUTION FZC

INDUSTRIAL WATER STORAGE TANKS

COMPLETE STEEL TANK SOLUTIONS
DESIGN · MANUFACTURING · INSTALLATION · AFTER-SALES SUPPORT





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ABOUT US

AL KARWAN SOLUTION FZC is a water storage solution company, specializing in the design, manufacture, supply and erection of sectional pre-engineered Zinalume® steel water tank as well as GI Powder Coated & Epoxy Coated cylindrical flat panel tanks.

Innovation inspired the design of **Al Karwan** Steel & Welding tank in which we use premium quality materials to produce a range of storage tanks.



AL KARWAN SOLUTION FZC continually develops material & design to meet high level market demands and expectations. Our water storage products serve to provide global market requirements with turnkey solutions and engineering.

AL KARWAN SOLUTION FZC aims to be the world's best water conservation and storage solutions engineering & manufacturing company.



MISSION

"Making AL Karawan
Water Tank - The tank of
choice"



PHILOSOPHY

"Water is a Blessing ,
Waste is not an option"



VALUES

"Innovation through
Quality Products &
Services"



AL KARAWAN WATER TANK

FEATURES

CORRUGATED ZINC ALUME®
COATED STEEL
SECTIONAL PANELS

01

GI POWDER COATED
[EPOXY COATED PANEL
TANK]

02

HEAVY DUTY
REINFORCED LINERS

03

HEAVY DUTY FULLY
SELF SUPPORTED DOME
ROOF

04

EXTERNAL LADDERS &
ACCESS PLATFORMS

05

ACCESS HATCHES &
BOTTOM MANHOLE

06

HOT DIP GALVANIZED

07

VERY COMPETITIVE
PRICING

08

10 YEAR
MANUFACTURER'S
WARRANTY

09

HOT DIPPED
GALVANIZED NOZZLES

10



AL KARAWAN WATER TANK APPLICATIONS

POTABLE AND WATER
STORAGE

01

FIRE WATER STORAGE

02

GREY AND BLACK WATER
STORAGE

03

SALT AND BRACKISH
WATER STORAGE

04



AL KARAWAN WATER TANK FIELDS

RESIDENTIAL &
COMMERCIAL BUILDING

01

LABOUR CAMPS

02

INDUSTRIAL
FACTORIES

03

DESALINATION PLANTS

04

SEWAGE TREATMENT
PLANTS

05

PUMPING STATIONS

06

POWER PLANTS

07

AGRICULTURE AND
FARMS

08

IRRIGATION &
LANDSCAPING

09

SUBSTATIONS

10





OUR EXPERTS AT WORK



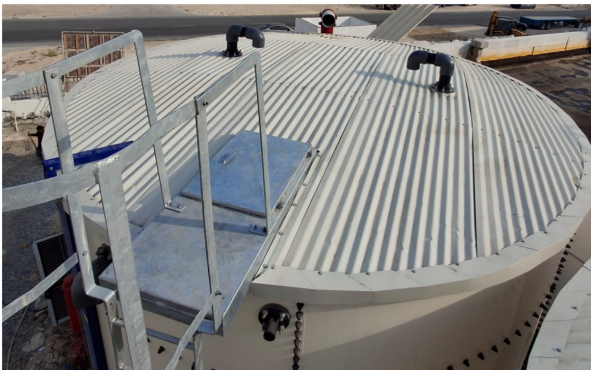
AL Karawan Cylindrical corrugated as well as GI Powder Coated, epoxy Coated tank wall panels are specifically engineered to give strength, as well as a pleasing aesthetic appearance. The panels are consistent in size but vary in thickness depending on the tank height and the tank diameter and designed for installation onto a reinforced concrete foundation beam.



The panels are joined vertically using a series of Hot Dipped Galvanized high tensile bolts. to protect against severe climatic conditions, tampering or other unforeseen problems, external bolt caps are fitted to the tank on each bolt.



Our Heavy-Duty Self-Supporting Dome Roof structure is designed for use without the requirement of internal vertical support columns. Dome Roof Sheets are connected to Hot Dip Galvanized structural Roof Truss members which are secured with a strong bolted connection to the tank wall, giving a direct load transfer from the roof structure to the tank wall and then to the ground.



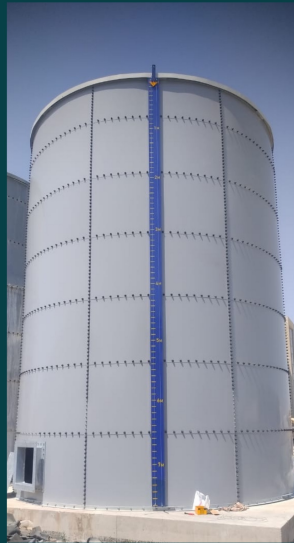
Internally, we utilize a High Grade, Heavy Duty impervious PVC membrane liner with an internally woven reinforced scrim to provide high water pressure resistance.

WALL STRUCTURE

WALL PANELS	GI SHEET/ Zinalume® Corrugated
COATED STEEL	Zinalume® Corrugated / Powder Coated Epoxy Coated
STEEL GRADE	Zinalume® G320 / S320GD / ASTM A653M
COLORS	All basic earth colors (Gray & Cream)
BOLTING	M12 HDG Coated flanged head high tensile bolts with washer & nut

ROOF STRUCTURE

ROOF SHEETS	Custom Orb Profiled Steel Panels
COATED STEEL	PPGI Single Skin corrugated sheet S Type Zinalume® / Zinc Alloy
STEEL GRADE	G550 High Tensile Zinalume® (Optional)
COLORS	Off white (RAL 9002)
BOLTING	Self-Supported Dome Roof with HDG trusses



DESCRIPTION:
REINFORCED PVC

LIQUIDS: POTABLE, SALT,
GREY & BLACK WATER

GRADE:
COMMERCIAL QUALITY -
HIGH GRADE

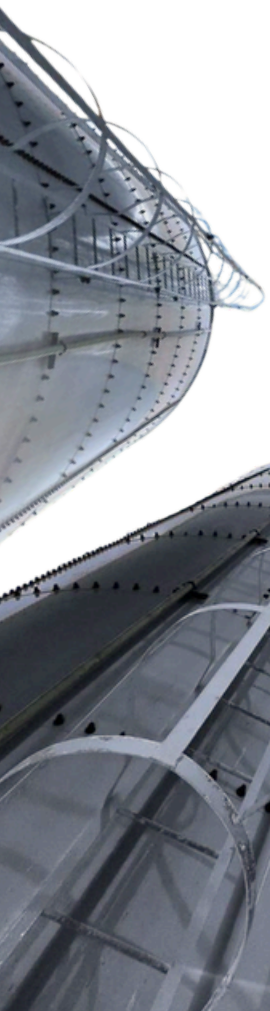
PRODUCT: FACTORY MADE
& PRE-TESTED LINER

MEMBRANE LINERS

LADDERS & PLATFORMS

STEEL GRADE:
HOT DIPPED GALVANIZED

SAFETY: EXTERNAL LADDER,
LADDER CAGE & PLATFORM
RAILING & BOTTOM MANHOLE



NOZZLES & FITTING ACCESSORIES

LEVEL INDICATORS,
GEOTEXTILE

MATERIAL: HOT DIPPED
GALVANIZED

VALVES: BALL,
BUTTERFLY, FLOAT VALVES

TYPES: VICTAULIC, ROLLED,
GROOVED & FLANGED
PRESSURE RESISTANCE.



DESIGN STANDARDS

01

STRUCTURAL STEEL
ASTM A653M

02

STEEL COATING
EN10326-10327

03

DEAD WATER AND LIVE LOADS
FM APPROVALS CLASS 4020 SEC. 2.4.2 TO 2.4.5,
AWWAD103--09 SEC. 5.2.1 7 5.2.2

04

COLD FORMED CARBON STEEL STRUCTURES
ASTM A 500

05

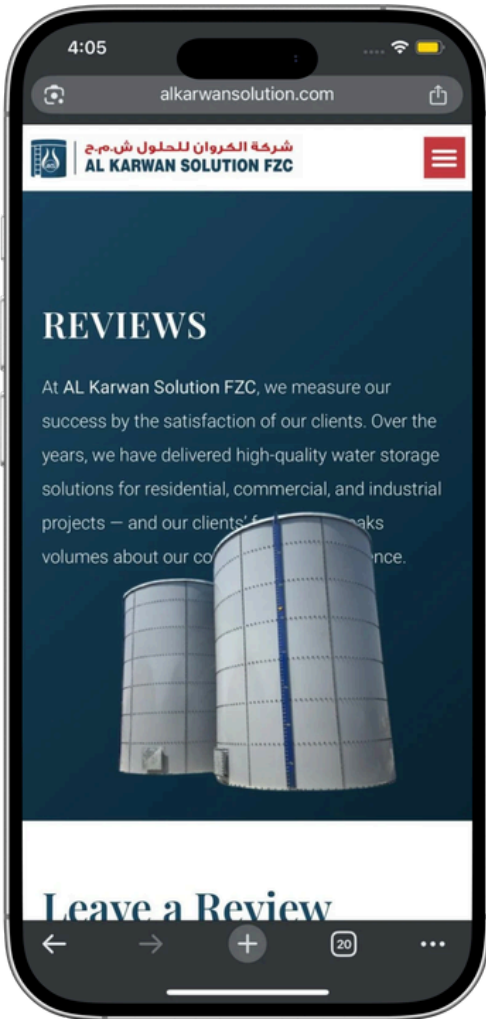
WATER STORAGE TANKS FOR FIRE PROTECTION
NFPA-22:2008





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