



الكروان للحدادة و اللحام
AL KARAWAN STEEL & WELDING



DESIGN | MANUFACTURING | INSTALLATION | AFTER SALES SUPPORT



INTRODUCTION

AL Karawan Steel & Welding

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

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

AL Karawan Steel & Welding is 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 Karawan Steel & Welding

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

www.alkarwansolution.com

AL Karawan Water Tank Features:

- GI Powder Coated /Epoxy Coated Panel Tank
- Corrugated Zincalume Coated Steel Sectional Panels
- Heavy Duty Reinforced Liners
- Heavy Duty Fully Self Supported Dome Roof
- External Ladders, Platforms, Access Hatch's and Bottom manhole
- Hot Dip Galvanized & Polyethylene Nozzles
- Very Competitive Pricing
- 10 year Manufacture's Warranty

AL Karawan Water Tank Applications:

- Potable and Water Storage
- Fire Water Storage
- Grey and Black Water Storage
- Salt and Brackish Water Storage

AL Karawan Water Tank Fields:

- Residential & Commercial Building
- Labour Camps
- Industrial Factories
- Desalination Plants
- Sewage Treatment Plants
- Pumping Stations
- Power Plants and Substations
- Agriculture and Farms
- Irrigation & Landscaping

Our Mission, Philosophy and Values:

- 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"

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DESIGN & SPECIFICATION

AL Karawan Steel & Welding 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 sewere 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 (Optional)
COATED STEEL: Powder Coated / epoxy Coated
STEEL GRADE: 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
STEEL GRADE: G550 High Tensile Zinalume (Optional)
COLORS: Off white (RAL 9002)
STRUCTURE: Self Supported Dome Roof with HDG trusses

MEMBRANE LINERS

DESCRIPTION: Reinforced PVC
GRADE: Commercial Quality – High Grade
LIQUIDS: Potable, Salt, Grey & Black Water
PRODUCT: Factory made & Pre-tested liner

LADDERS & PLATFORMS

STEEL GRADE: Hot Dipped Galvanized
SAFETY: External Ladder, Ladder cage & Platform Railing & bottom a manhole

NOZZLES & FITTINGS

MATERIAL: Hot Dipped Galvanized
TYPES: Victaulic, Rolled, Grooved & flanged
VALVES: Ball, Butterfly, float valves

ACCESSORIES

Level Indicators, Geotextile

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DESIGN STANDARDS

STRUCTURAL STEEL

ASTM A653M

STEEL COATING

EN10326-10327

DEAD WATER AND LIVE LOADS

FM Approvals Class 4020 Sec. 2.4.2 to 2.4.5, AWWAD103-09 Sec. 5.2.1 & 5.2.2

COLD FORMED CARBON STEEL STRUCTURES

ASTM A 500

WATER STORAGE TANKS FOR FIRE PROTECTION

NFPA-22:2008



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