

ENDURAMAXX®

FLUID MANAGEMENT INNOVATION

ENDURAMAXX INSPECTION AND MAINTENANCE GUIDE FOR ROTATIONALLY MOULDED WATER TANKS

Introduction

This inspection and maintenance of above is for static tanks with a head equal to the height of the product used (i.e. no pressures induced on the tank).

Installation

It is deemed that the storage tanks have been installed to the correct procedure by either manufacturer's instructions or guidelines.

Operation and Maintenance

Examination

Tanks in service - Inspection of open bunded tanks Inspection by Competent Person

Inspections should be undertaken by a competent person that is receiving a delivery of product on every fill prior to and whilst filling.

This inspection should include:

- The fill point arrangement for soundness and leaks
- Any outlet valves should be checked for leaks and operation (open and close successfully)
- The testing of contents gauge, any high level / overfill alarm and bund alarm.
- If vents can be seen that they are clear and unblocked and free of debris.
- A visual inspection around the tank. The inspection for plastic tanks should include any deformation of the surface of the tank, excessive bulging, change in colour due to chemical attack or stress fractures.
- Bund to be visually inspected for soundness and integrity, water, spilt product, or other debris.

Design Life Inspection

A design life of a storage tank should be approximately twenty years. For continued use of the storage tank an inspection by:

- a) Removing the tank from bund and inspecting as above
- b) A visual inspection device i.e. a camera can be used for the above

Internal Examination and Cleaning

Internal examinations should be undertaken by a competent person at appropriate intervals, as determined by the product used, and its cleanliness i.e. solids or water falling out of suspension. Entry into confined spaces should be carefully planned and supervised and should be subject to a strict procedure dependent on the substance stored, and in accordance with HSE requirements.

Manufacture/Design Considerations

Manufacturers should work to an appropriate standard which simplifies quality control and traceability. Would be purchasers should seek advice from the manufacturer regarding a suitable standard for the design and construction of new tanks.

The user should make sure that the tank being ordered meets all the design criteria required of it. It is important that users understand what they are purchasing and do not assume that the tank has the required properties and functions. It is of utmost importance that the manufacturer and purchaser understand the design and function requirements in order the tank is designed accordingly.