

Chemifloc Ltd

Requirements for Bulk Storage Installations.

Chemifloc Limited is a chemical manufacturer, primarily involved in the manufacture, supply and delivery of water and wastewater treatment chemicals. Some of these products are classified as hazardous and their handling and use is governed by Health Safety and Welfare (Chemical Agents) Regulations (S.I. 619 of 2001), and the transport of these chemicals is governed by the ADR regulations for the transport of dangerous goods by road.

In order to comply with these regulations Chemifloc Limited has issued the following recommendations for installation of Bulk Storage Facilities.

- All storage tanks should be banded to 110% of the capacity of the largest tank or in the case of multiple tanks to 25% of the overall storage capacity (whichever is the greater).
- All storage tanks should be equipped with a level device at the discharge location.
- All storage tanks should have a vent outlet (twice the diameter of the inlet pipe) and an overflow pipe plumbed to a safe location.
- Inlet pipes to storage tanks should be of a suitable diameter and equipped with a connection fitting as in table 1.

Product	Load Size	Pipe Diameter	Fitting
Liquid Alum, Chemifloc 101, Chemifloc 103, Chemifloc 202, Ferric Sulphate	20 Tonnes plus	3"	3" Female Quicklok
Liquid Alum, Chemifloc 101, Chemifloc 103, Chemifloc 202, Ferric Sulphate	Up to 12 Tonnes	1.5"	1.5" Female Quicklok
96% Sulphuric Acid	All loads	2"	2" ASA Flange
14% Fluorosilicic Acid	All loads	2"	1.5" Female Quicklok

- Inlet pipes to storage tanks should have a maximum discharge height of 7 meters.
- Inlet connections should be equipped with an isolation valve and a drain/sampling valve.
- Inlet connections should be secured with a lockable device (e.g. lockable valve, padlocked blank).
- Safe access to discharge connection point should be provided (working height for connection should not exceed 1.2 meters).
- Discharge connection point should be located to allow adequate access (within 15 meters) for delivery vehicles.
- All installations should be equipped with a water supply, a safety shower and eye wash unit.

Typical Bulk Storage Installation.

General Layout for Bulk Storage Installation

