

# Donegal Fire Service Specification

## Static Storage Tanks for Fire fighting water supply

### 1. Tank

- 1.1 Where tank capacity is specified by the Fire Authority this refers to the usable capacity of the tank
- 1.2 Tanks must be located a minimum distance from the building to ensure it is available at all times and not subject to radiant heat from any building fire
- 1.3 The location of the tank must be agreed in writing with the Chief Fire Officer and accompanied with an appropriate site layout
- 1.4 100mm. minimum diameter pipe terminating in two fire brigade connectors.

### 2. Outlets

- 2.1 The tank outlet should be a maximum distance of 5m from the hard standing to facilitate connection of hard suction pipes or in a position agreed with the Chief Fire Officer.
- 2.2 Pipes to be metal where exposed
- 2.3 Outlets to have **female** connection, 100 mm. diameter and compatible with the suction hose used by Donegal Fire Service. See Photos 1 & 2 attached.
- 2.4 Each outlet to be valved and to be fitted with a blank cap.
- 2.5 The mid point of the outlets to be 300 mm above finished ground level and fitted so that the suction hoses are horizontal when connected.
- 2.6 Vertical outlet pipes to be bedded in concrete to prevent movement.

### 3. Inlets

- 3.1 Inlet from the water main to be a minimum of 100 mm. diameter (where available) terminating in a float valve or similar. Pipe to be metal where exposed.

### 4. Air Intake

- 4.1 Where the tank is enclosed, it must be fitted with an air valve or similar to allow an adequate air inflow to compensate for the draw off of water from the tank during fire fighting operations

### 5. Hardstanding

- 5.1 Where access is provided for Fire Service vehicles, the access route and hard standing must have a bearing capacity of 12.5 tonnes

### 6. Marking / Signage

- 6.1 Adequate signage should be provided to indicate the location of the tank(s). The signage should be located and sized to ensure they are clearly visible from the access route. Signage should indicate "FIRE FIGHTING WATER SUPPLY" and the capacity of the tanks. Eg. "60,000 litres"

Note: Agreed or acceptable to the Chief Fire Officer means agreed in writing in advance of any works commencing on-site.

**Photo 1 – 100mm Female connection**



**Photo 2 - 100mm Male connection on hard suction hose**





**Photo 3 – Example of overground tank with signage**