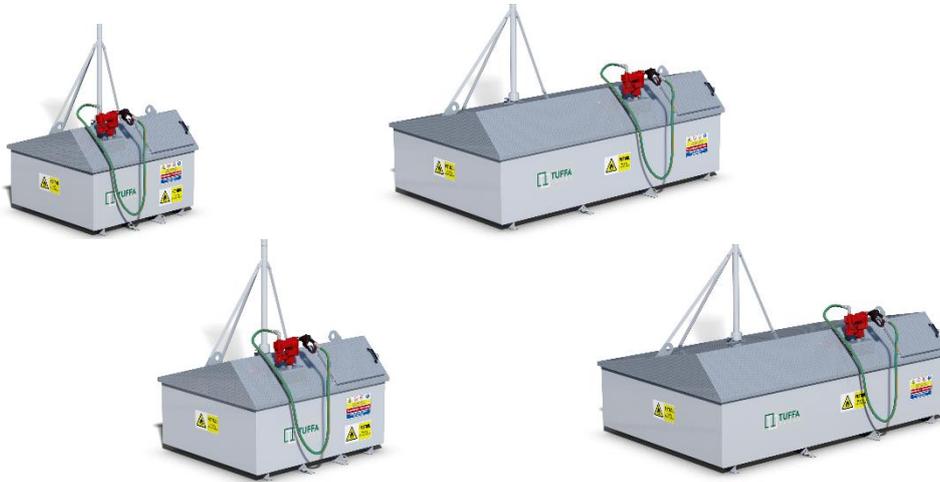


Tuffa Petrol Tank Guidance



Description of the system

The Tuffa Petrol Tank range is a bunded fire proofed steel fabricated tank designed for the safe static storage and local dispensing of Petrol. The intended use for this system is for end users who wish to store and locally dispense petrol at their facility from a fixed point (non-mobile). Tuffa petrol tanks have been designed in accordance with the Blue book guidelines and apply safety design features in accordance with DSEAR (Dangerous substances & Explosive Atmospheres Regulations 2002 Second Edition). Tuffa Petrol dispensing tanks are offered in a variety of pumping specifications in order to meet end user requirements, dispensing options vary between a manual hand pump, 12V, 24V, 110V & 240V pumps which carry the appropriate certification for the safe dispensing of petrol. Tuffa petrol tanks are designed to take delivery from a petrol tanker through the means of a gravity fill and do not contain transfer pumps to offload a petrol tanker.

Petrol Storage Legislation

The storage and procurement of petrol in the UK is regulated and not possible without first obtaining a petroleum certificate from your local authority petroleum officer. Depending on the site location this will vary:

Metropolitan County > Fire Service > Petroleum / Fire Officer

Unitary Authorities (Non-Metropolitan County) > Trading Standards > Petroleum / Fire Officer

Help to locate your local petroleum officer can be found: <http://www.apea.org.uk/contacts>

It is advised before purchasing a Tuffa Petrol Tank that your local petroleum officer is contacted for advise on the step by step process of obtaining your petroleum certificate, this can vary from one district to another however we advise that:

- A 2D drawing be obtained of the desired Tuffa petrol tank (provided by Tuffa Tanks)
- A site drawing of the tank and its location and surroundings be produced (provided by the end or installation company) this should contain any nearby boundaries, buildings, thoroughfares, additional

tanks, fixed sources of ignition, additional hazards.

- A product specification be obtained and submitted with the site drawing to the petroleum / fire officer (provided by the end user or installation company)
- If requested by the petroleum / fire officer arrange a site visit at the desired tank location and await the petroleum officer's instruction.
- Upon receiving approval from the Petroleum / Fire Officer order and take delivery of the Tuffa petrol tank.
- When the tank is positioned in the notified location inform the petroleum officer, a further site visit and drop test may be requested after installation although is not always required. (Responsibility of the end user or installation company)
- At the petroleum / fire officer's discretion you will then obtain your Petroleum certificate and will be eligible to purchase the agreed amount of Petrol set out by the petroleum / fire officer.
- Arrange for first delivery of petrol with the desired supplier.

Record Keeping

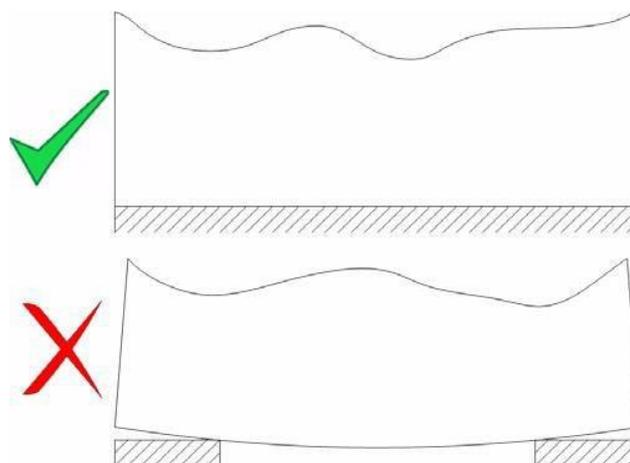
After a petroleum certificate is obtained you must keep a log of every petrol delivery, this will detail the amount delivered, the date, the drivers and receivers signature, a maintenance log must also be kept detailing any works carried out on the Tuffa petrol tank both of which must be made available at the petroleum officers request and is the responsibility of the end user.

Siting and Locating a Tuffa Petrol Tank

The end user is responsible for complying with the legal requirements relating to the safe location, installation and use of this product.

System Foundation:

We recommend the system be installed and fully supported on a smooth level reinforced concrete base of no less than 100mm thickness. Please refer to diagram below:

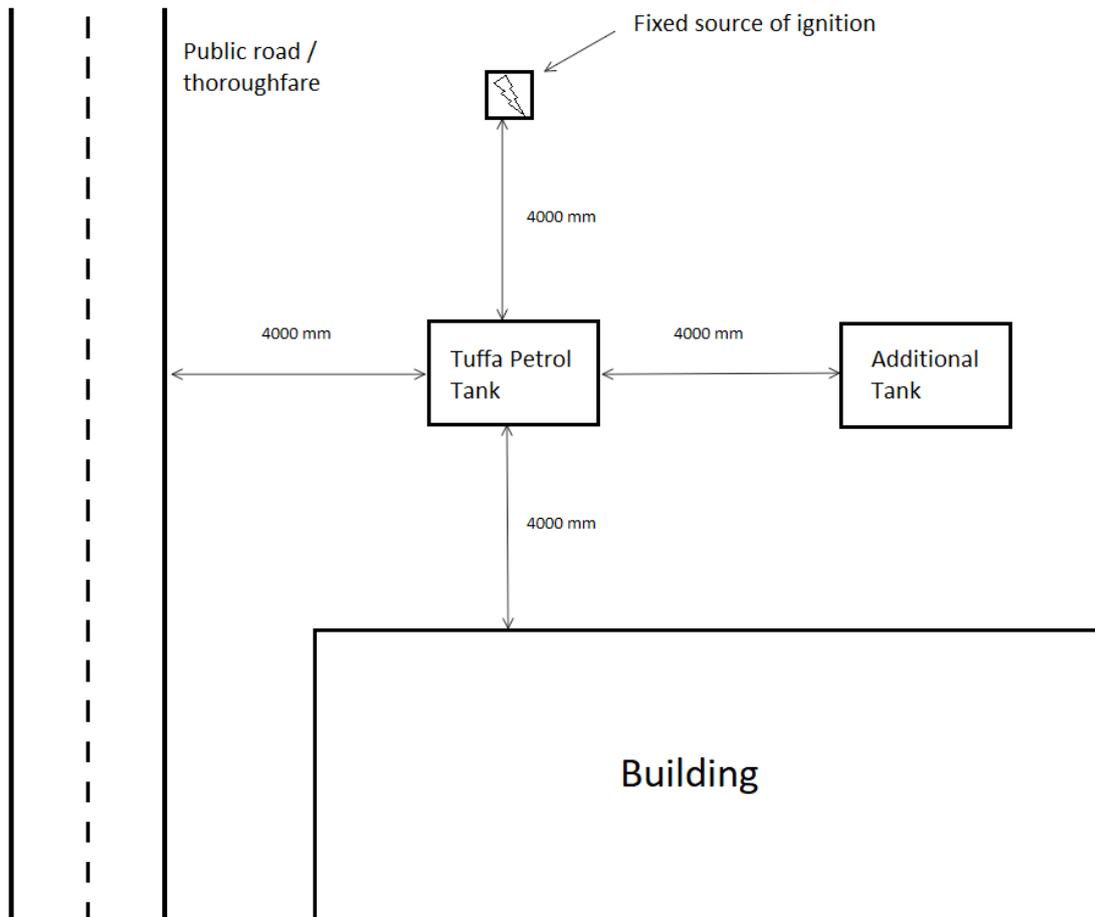


System location:

The location of the system should be positioned by a road or access with enough width and loading capacity to accommodate a petrol tanker, provision for the U-turn of a tanker should be considered and any obstacles for a tanker in the form of tree branches, electrical cabling, or parked vehicles must be minimised. If necessary additional impact protection around the tank may be required in the form of bollards or barriers. Suitable clearance for the safe delivery of petrol from a tanker must be considered before deciding the location of a Tuffa petrol tank.

Tanks above ground should be sited in a well-ventilated position separated from the site boundary, occupied buildings, additional tanks, sources of ignition and process areas. **Tanks should be located at least 4 metres from site boundaries, adjacent buildings & building escape routes including windows and doors, process areas, fixed sources of ignition and additional tanks. The layout of tanks should always consider the accessibility needed for the emergency services.**

If a serious fire develops involving one tank in a group of tanks then it is unlikely that these between-tank separation distances will prevent damage or even destruction of the adjacent tanks. However, they should allow enough time for emergency procedures to be implemented and for people to be evacuated from areas threatened by the incident. It is not recommended that groups of petrol tanks are positioned directly next to one another without a sufficient separation distance, failure to do so increases your aggregate petrol storage in a localised area which could lead to a greater potential hazard in the event of ignition.



Labelling

It is recommended adequate hazard and warning labelling is used around any petrol tank installation notifying any persons of the dangers involved with storing petrol above ground. The below graphic shows a selection of labelling used with any Tuffa Petrol tank, we recommend that these warning labels or similar be used in the area surrounding the tank to advise any persons on the procedure that must take place within the hazardous area.



Risk Assessment

It is recommended that an appropriate site risk assessment is carried out before any petrol tank installation to identify the hazards that the product and environment can pose. A risk assessment should at best identify the hazards and quantify the risks associated with the following:

- The scale and anticipated effect of fire and explosion
- Hazardous areas & ignition sources
- Environmental pollution
- Spill containment
- Leaks
- Fuel deliveries
- Security & attempted theft
- Impact or malicious damage
- Maintenance, repair and replacement of ancillary equipment
- Daily operation and use of the product
- Fire detection & fire prevention
- Emergency & evacuation
- COSHH assessment of Petroleum



It is required that all employers and the self-employed should assess all potential risks to employees and others whose safety may be affected by the use or presence of a dangerous substance at the workplace. A thorough and well planned risk assessment can help best locate your Tuffa petrol tank to the safest and most practical location, identifying any potential risks will help to implement the appropriate control measures required to remove or reduce that risk or hazard.