

P5 TI/133D (Domestic Oil Storage and Fire Risk Assessment)

P5.1 General (See Diagram P5.1)

Protection of the environment and property is vital. Although oil is an intrinsically safe fuel, TI/133D has been provided to aid a competent person to assess the environmental and fire risks associated with domestic fuel storage facilities. It should be used prior to any installation work commencing. It can also be used to identify and record risks regarding existing installations.

This assessment can be used to decide if an oil storage tank needs to be provided with secondary containment and/or fire protection. Provision of secondary containment may be achieved by an integrally bunded tank or building a masonry or concrete bund to CIRIA Report 163, around a single skinned tank. Provision of fire protection may be achieved by the use of third-party approved composite fire rated barriers or by construction of masonry walls.

For guidance on approximate fire ratings of domestic buildings and structures, please refer to section 2.5.

For domestic dwellings, BS 5410 Part 1 applies to an oil tank installation with a capacity not greater than 3,500 litres.

Every installation will have special features, and they must be assessed on each occasion as to their likely effect on both the risk of spillage and risk of spread of fire to the contained fuel.

To comply with regional requirements, the undertaking of a risk assessment is usually required for the purpose of determining whether secondary containment can be omitted. However, some regional requirements (e.g. Jersey) prohibit the omission of secondary containment. In those cases part 3 (Fire Hazard) of the TI/133D form can still be utilised (see Regional requirements in this book).

Parts 2 and 3 of the TI/133D form list the potential hazards, which require checking.


Regional requirements, such as The Control of Pollution (Oil Storage) (England) Regulations 2001, require that non-domestic properties with storage above 200 litres are to be provided with secondary containment (see Regional requirements in this book)

It is important to provide the top copy of the Risk Assessment to the owner of the oil storage tank, and retain the bottom copy for your records.

The OFTEC OFT 600 (formerly OFT 600a) Domestic/Commercial and Industrial Tank Installation Training Course and Assessment covers in detail the specific installation requirements.

OFTEC TECHNICAL BOOK THREE PART 1 (DOMESTIC) OFTEC PROCEDURES

TI/133D Form (Domestic Oil Storage Tank Spillage and Fire Risk Assessment) (Diagram P5.1)



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Domestic oil storage tank spillage and fire risk assessment

You need to complete this assessment to decide whether the oil storage tank being installed at the address below requires to be provided with secondary containment or fire protection. Oil Storage installations must comply with the requirements of the Building Regulations and Standards, and BS 5410.

PLEASE COMPLETE ALL THE UNSHADED AREAS WITHIN THE BOXES

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1. Record your competent person scheme provider.
2. Record your company name and telephone number.
3. Record the owner of the property's name and signature (if available).



4. Record date of signature.
5. Record date of assessment.
6. Record full site address details (this is where the oil storage tank is being installed).
7. Record the full address details of the owner of the property, if different to number 6 above.

NOTE 1 on TI/133D Where the owners name and address is different to the site address, it is necessary to record the owners name and address in this box as it is the owner who is the responsible person under law.

8. Environmental hazards that, if ticked yes, will require the oil storage tank to have secondary containment (bundling).

NOTE 2 on TI/133D Refer to section 2.4 and the Regional Requirements at the back of this book.

- 8.1 Identify the capacity of the oil storage tank.
- 8.2 Identify whether the oil storage tank is located within 10m of controlled water (rivers streams, lakes, canals, coastal waters, estuaries, groundwater. this means all water which is below the surface of the Ground in the saturation zone and in direct contact with the ground or subsoil, and any ditches soakaways, septic tanks and gullies which could pollute groundwater or reach controlled water through groundwater).
- 8.3 Identify whether the oil storage tank is located in a position where, if there was an oil spill or leak, could the oil storage tanks contents reach open drains or loose fitting manhole covers. (Not sealed or screwed down manhole covers).
- 8.4 Identify whether the oil storage tank is located within 50m of a borehole or spring (including wells). For information on the location of water extraction sites (which are not visible) contact the local authority and regional environmental authority.
- 8.5 Identify whether the oil storage tank is to be located/already located over hard ground or hard surfaced ground which could enable spillage run off to reach controlled water.

For example where an oil tank is installed over a hard paved, concrete or tarmac drive which slopes down to a road or has its own surface water drainage system.

OFTEC TECHNICAL BOOK THREE PART 1 (DOMESTIC)
OFTEC PROCEDURES

- 8.6 Identify whether the vent pipe of the oil storage tank can be seen from the fill point. The fill point is where the hose from the tanker enters the oil storage tank or associated pipework (e.g. extended fill lines).
- 8.7 Identify whether the oil storage tank is supplying heating oil to another building other than a single family dwelling (e.g. on site offices).
- 8.8 Identify any other potential hazards that you feel would constitute a pollution risk.

NOTE 4 on TI/133D Additional enquiries may be necessary to regional environmental agencies to identify hidden or unseen potential environmental hazards, i.e where the site is located over a ground water source such as aquifer.

- 9. Identify whether the tank is located in flood risk area or is exposed to high wind.
- 10. Fire hazards that if tick yes with require fire protection of no less then 30 minutes extending 300mm longer then each side of the oil storage tank and 300mm higher then the highest part of the oil storage tank.

NOTE 2 on TI/133D Refer to section 2.4 and the Regional Requirements at the back of this book.

- 10.1 If it has been identified that the oil storage tank is or has been located closer then 1.8m to a non-fire rated wall, fire protection will be required.
- 10.2 If it has been identified that the oil storage tank is or has been located closer then 760mm to a non-fire rated boundary, fire protection will be required.
- 10.3 If it has been identified that the oil storage tank is or has been located closer then 1.8m to non fire rated eaves, fire protection will be required.
- 10.4 If it has been identified that the oil storage tank is or has been located closer then 1.8m to any windows or doors, fire protection will be required.
- 10.5 If it has been identified that the oil storage tank is or has been located closer then 1.8m to a flue terminal (in any direction), fire protection will be required.
- 10.6 If it has been identified that the oil storage tank is or has been located on a base which does not extend 300mm on all sides. The oil storage tank base will require extending to 300mm on all sides (see note 5).

OFTEC TECHNICAL BOOK THREE PART 1 (DOMESTIC)
OFTEC PROCEDURES

NOTE 5 on TI/133D Excepting where the side and/or end of the base abuts a fire rated structure, such as a building, boundary or barrier. In these circumstances the base need only extend 100mm from the tank to the fire rated structure. Any exposed sides or ends should still be extended by 300mm. For further information refer to Section 2.5.

11. Record name of OFTEC Registered Technician completing the Risk Assessment and their OFTEC Registration number (this begins with a letter and then 5 digits and then OFTEC qualifications). The OFTEC Registered Technician should then sign and date the Risk Assessment.