



KEY:

- 1) WARNING NOTICE 1.
- 2) WARNING NOTICE 2.
- 3) FIRST STAGE PRESSURE REDUCING ASSEMBLY, (POSITION TO SUIT).
- 4) ACCESS GATE, (SEE SPEC BELOW, ON THE LEFT).
- 5) CONCRETE OR GRAVEL AREA LAID ON A IMPERVIOUS MEMBRANE.
- 6) EMERGENCY GATE. (SEE SPEC BELOW, ON THE LEFT).
- 7) TANK SIZES 2000L,(1 TONNE) AND BELOW, REQUIRE WATER SUPPLY FOR FIRE SERVICE USE AND EITHER:
 - 19MM HOSE REEL AND 2 x 9KG DRY POWDER EXTINGUISHERS, OR
 - 4 x 9KG DRY POWDER EXTINGUISHERS,OR
 - 2 x 9KG DRY POWDER EXTINGUISHERS AND 2 x 9KG LITRE WATER EXTINGUISHERS
- TANK SIZES ABOVE 2000L, REQUIRE WATER SUPPLY FOR FIRE SERVICE USE, 19MM HOSE REEL AND TWO 9KG DRY POWDER EXTINGUISHERS IN BOXES.
- 8) VAPOUR SUPPLY UNDERGROUND FROM INSIDE COMPOUND. (POSITION TO SUIT)

SPECIFICATION

CIVIL WORK:

THE AREA BENEATH TANKS TO BE CONCRETED AND STORAGE AREA ARRANGED TO PREVENT EITHER THE ACCUMULATION OF ANY LIQUID BENEATH THEM OR ITS FLOW AFFECTING OTHER TANKS OR IMPORTANT AREAS. IT SHOULD BE FREE FROM PITS AND DEPRESSIONS THUS PREVENTING ANY FORMATION OF GAS POCKETS. ALL MATERIALS USED MUST BE FIRE RESISTANT, ENOUGH TO WITHSTAND A MINIMUM CONTACT OF OF 2 HOURS.

THE SURROUNDING AREA OF THE TANKS SHOULD HAVE CLEARANCE FROM WEEDS, LONG GRASS AND OTHER COMBUSTIBLE MATERIALS:
3 METRES CLEARANCE FOR TANKS, 2000L AND BELOW.
6 METRES CLEARANCE FOR TANKS ABOVE 2000L.

COMPOUND FENCING:

INDUSTRIAL TYPE, i.e. CHAIN LINK FENCING (SEE UK LPG COP1).
MINIMUM HEIGHT 1800mm
ENTRANCE GATES TO BE NON SELFLOCKING AND SHOULD NOT BE ADJACENT TO EACH OTHER, GATES TO OPEN OUTWARDS.
FENCING IS NOT REQUIRED IF TANKS ARE ADEQUATELY PROTECTED, i.e. THE AREA COMES WITHIN A GREATER FENCED AREA OR IS OTHERWISE ISOLATED FROM THE PUBLIC.

MINIMUM SAFETY DISTANCES FOR TANKS BELOW 3400 LITRES:

3.0 M FROM BUILDING/PROPERTY LINE OR FIXED POINT OF IGNITION.
1.5 M FROM TANK TO COMPOUND FENCE.
1.0 M BETWEEN TANKS.

MINIMUM SAFETY DISTANCES FOR TANKS 3400 LITRES AND ABOVE:

7.5 M FROM BUILDING/PROPERTY LINE OR FIXED POINT OF IGNITION.
1.5 M FROM TANK TO COMPOUND FENCE.
1.0 M BETWEEN TANKS.

FIRE WALL:

A FIRE WALL MAY REPLACE ONE SIDE OF THE FENCING. THE WALL SHOULD BE IMPERFORATE AND OF SOLID MASONARY, CONCRETE OR SIMILAR CONSTRUCTION. THE MINIMUM HEIGHT OF THE FIRE WALL WILL CHANGE, DEPENDING ON TANK SIZE:
1200L TANK = 1.4 M HEIGHT.
2000L TANK = 1.5M HEIGHT.
3400L - 8000L TANKS = 2.0M HEIGHT.
IF TWO FIREWALLS ARE REQUIRED, PLEASE CONTACT NATIONAL ENGINEERING.

SCREENING:

EVERGREEN SHRUBS MAY BE USED TO SCREEN THE COMPOUND ON ONE SIDE ONLY BUT SHOULD NOT BE USED AS AN INTEGRAL PART OF THE SECURITY FENCE.

WATER SUPPLY:

AN ADEQUATE SUPPLY OF WATER MUST BE AVAILABLE AT ALL TIMES TO PROVIDE ENOUGH WATER FOR AT LEAST 60 MINUTES, PER TANK. SOURCE OF SUPPLY SHOULD NOT BE FURTHER THAN 100 METRES FROM THE TANK COMPOUND.

NOTICES:

WARNING 1 :- " COMPOUND SIGN" (NO SMOKING, NO NAKED LIGHTS)
510mm x 340mm
WARNING 2 :- " EMERGENCY SERVICE SIGN"
300mm x 200mm
WARNING 3 :- " TRIP HAZARD SIGN" (IF APPLICABLE)
300mm x 200mm

Base and tank compound dimensions for Commercial Side by Side installations						
Tank size	No of tanks	Base dimensions		Compound dimensions		Clearance around base
		Width (A)	Length (B)	Width (C)	Length (D)	Length & Width (E)
1200 litres	3	5m	2m	8m	5m	1.5m
2000 litres			3m		6m	
3400 & 4000 litres		5.7m	4.4m	8.7m	7.4m	

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Vapour Installation for 3 Tanks,
Standard Compound Details:
1200L, 2000L, 3400L & 4000L

References

Commercial Installations

Date 20/04/

Drawn By S.

Checked By M.B

Scale

Paper Size

Issue

A

Org. No.

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