

**TECHNICAL INFORMATION**

WATER CAPACITY 4600 LITRES, NOMINAL PROPANE CAPACITY 4000 LITRES MAX.

**CIVIL WORKS:**

THE TANK BASE SHOULD BE CAST ON A SUITABLE (FOR GROUND CONDITIONS) SUB BASE USING A MINIMUM OF 21 NEWTON CONCRETE. UN-REINFORCED CONCRETE SHOULD BE A MINIMUM OF 0.2m THICK, WHEN SUITABLE REINFORCEMENT IS USED THE MINIMUM THICKNESS CAN BE REDUCED TO 0.15m. TO PREVENT THE FORMATION OF GAS POCKETS, THE VICINITY OF THE LPG STORAGE VESSELS SHOULD BE FREE FROM PITS AND DEPRESSIONS WITHIN 7.5m. THE SURROUNDING AREA WITHIN 6m OF THE TANK IS TO BE FREE FROM WEEDS, LONG GRASS AND ANY OTHER COMBUSTABLE MATERIAL. TRENCH DEPTH BETWEEN 0.6m-0.75m DEPENDING ON APPLICATION AND PIPE RUNS. TRENCH TO BE 0.3m WIDE. IF UNSURE PLEASE CONSULT THE FLOGAS TECHNICAL TEAM.

**MINIMUM SAFETY DISTANCES**

7.5m FROM VESSEL SHELLS (IN PLAN) TO BUILDINGS, BOUNDARIES OR FIXED SOURCES OF IGNITION -THIS CAN BE REDUCED TO 4m WITH THE USE OF A FIREWALL(SEE FIREWALL).  
 1.5m FROM VESSEL SHELLS TO COMPOUND.  
 1m BETWEEN VESSELS.  
 1m FOR VISUAL SCREEN IF FENCING NOT REQUIRED (SEE SCREENING).  
 6m TO PARKED CARS UNDER THE CONTROL OF THE SITE OPERATOR.  
 7.5m TO PARKED CARS NOT UNDER THE CONTROL OF THE SITE OPERATOR.  
 1.5m IN PLAN TO TELEPHONE CABLES AND POWER CABLES OPERATING BELOW 1.0kva.  
 10m IN PLAN TO POWER CABLES OPERATING ABOVE 1.0kva.

**FENCING REQUIREMENTS**

IT IS NOT REQUIRED IF TANKS ARE ADEQUATELY PROTECTED, I.e. THE AREA COMES WITHIN A GREATER FENCED AREA OR IS ISOLATED AWAY FROM MEMBERS OF THE PUBLIC.  
 MINIMUM HEIGHT 1.8m.  
 TYPE OF FENCE: INDUSTRIAL TYPE I.e. CHAIN LINK, OPEN MESH TYPE OR PALISADE. (IF UNSURE PLEASE CONTACT FLOGAS TECHNICAL DEPARTMENT).  
 TWO NON SELF LOCKING GATES ARE REQUIRED, THEY MUST OPEN OUTWARDS AND MUST BE INSTALLED IN NON ADJACENT SIDES.  
 THE FENCING MUST BE 1.5m AWAY FROM THE VESSELS UNLESS THE AREA IS OPEN TO THE PUBLIC, WHERE THIS DISTANCE WILL NEED TO BE 3m.

**FIREWALL**

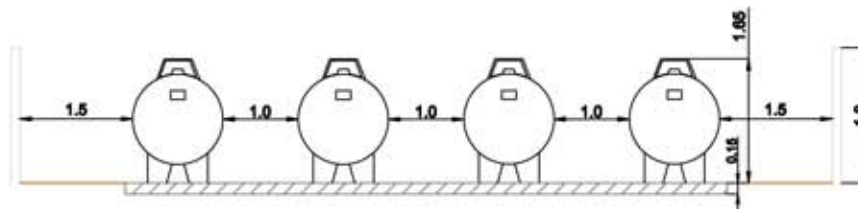
A FIREWALL MAYBE PLACED UPON TWO SIDES OF THE COMPOUND, PREFERABLE OPPOSITE SIDES.  
 LOCAL ENFORCING AUTHORITY APPROVAL MAY BE REQUIRED IF USING MORE THAN ONE FIREWALL.  
 THE FIREWALL MUST BE IMPERFORATE AND OF SOLID MASONARY, CONCRETE OR SIMILAR CONSTRUCTION  
 MINIMUM HEIGHT OF 2m ABOVE THE BASE LEVEL. IF UNSURE PLEASE CONTACT THE FLOGAS TECHNICAL DEPARTMENT.  
 A FIREWALL MUST BE A MINIMUM OF 1m AND A MAXIMUM OF 1.5m AWAY FROM THE VESSEL, BUT A PREFERRED DISTANCE OF 1.5m.  
 FIREWALLS MUST PROVIDE A MINIMUM OF 30 MINUTES FIRE RESISTANCE, OR 60 MINUTES WHERE THE WALL FORMS PART OF RESIDENTIAL ACCOMMODATION.  
 A FIREWALL FOR A 4600L MUST NOT BE BUILT ALONG A BOUNDARY LINE.  
 BEFORE ANY FIREWALL IS CONSIDERED OR CONSTRUCTED, LAYOUT AND DESIGN MUST BE APPROVED BY THE FLOGAS TECHNICAL DEPARTMENT.

**TANK SCREENING**

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

**WATER SUPPLY**

AN ADEQUATE SUPPLY OF WATER MUST BE AVAILABLE AT ALL TIMES.  
 SOURCE TO BE NO MORE THAN 100m FROM COMPOUND.  
 WATER MUST BE AVAILABLE FOR THE FIRE BRIGADE AS WELL AS THE FOLLOWING, A 19mm HOSE REEL AND 2 x 9kg DRY POWDER FIRE EXTINGUISHERS OR 4 x 9kg DRY POWDER OR 2 x 9kg DRY POWDER AND 2 x 9 LITRE EXTINGUISHERS.



ALL DIMENSIONS IN METERS

BASIC LAYOUT FOR 4 X 4600L STORAGE VESSELS

|           |          |
|-----------|----------|
| SCALE     | 1-75     |
| DRG. SIZE | A3       |
| ISSUE     | A        |
| DRAWN     | DSH      |
| APPROVED  | CH       |
| DATE      | 23/02/07 |