

GENERAL REQUIREMENTS FOR UNDERGROUND FUEL TANK FOR INFLAMMABLE LIQUID AND SUBSTANCES

GENERAL NOTES

1. THE TANK MUST BE INSTALLED IN COMPLIANCE WITH SABS 10460, 10663 & 10103.
2. ONE 900 DRY CHEMICAL POWDER BC TYPE FIRE EXTINGUISHER MUST BE PROVIDED FOR ISLANDS.
3. SABS APPROVED SYMBOLIC 'NO SMOKING' SIGNS MUST BE PROVIDED.
4. PUMPS MUST BE PROTECTED BY BOLLARDS.
5. ALL TANKS TO BE UNDERGROUND STORAGE TANKS, UNLESS OTHERWISE SPECIFIED BY ENGINEER.
6. FILLER PIPES - 100MM.
7. THE VENT + SUCTION PIPES - 150MM, MIN 300 ABOVE GROUND AND MIN 600MM ABOVE ROOF LEVEL.
8. NO LEAKY FUEL DISPENSING PUMP, PIPES OR STORAGE TANK TO BE SITUATED LESS THAN 3.0M FROM ANY LATERAL BOUNDARY OR STREET BOUNDARY, UNLESS OTHERWISE SPECIFIED BY ENGINEER.
9. THE TANK SHALL BE FITTED WITH AN OVERFILL PROTECTOR, THE CRITICAL LEVEL SHALL BE SUCH THAT A SPACE REMAINS IN THE TANK TO ACCOMMODATE THE DELIVERY PIPES VOLUME.

TANKS

EVERY TANK MUST BE INSPECTED BEFORE INSTALLATION FOR ANY VISIBLE SIGNS OF DAMAGE AND TO ENSURE THE PROTECTION LAYER IS UNDAUNAGED. REPAIRS MUST BE AFFECTED BEFORE THE TANK IS LOWERED INTO THE EXCAVATION.

GROUND WATER

IN AREAS WHERE THERE ARE HIGH WATER TABLES AND THERE IS A POSSIBILITY THAT THE TANK CAN FLOAT, THE TANKS MUST BE ANCHORED ACCORDING TO THE WRITTEN SPECIFICATION OF A PROFESSIONAL ENGINEER AND APPROVED BY THE LOCAL AUTHORITY.

THE LOCAL FIRE DEPARTMENT MUST BE INFORMED AT LEAST TWO (2) WORKING DAYS IN ADVANCE BEFORE WORK ON THE INSTALLATION COMMENCES AND THEREAFTER FOR THE FOLLOWING INSPECTIONS WITHOUT EXCEPTIONS.

1. AFTER EXCAVATION IS COMPLETE.
2. WITH THE INSTALLATION OF A SUITABLE NON-METALLIC SHEET ON THE BED OF RIVER SAND.
3. WITH THE INSTALLING OF THE TANK.
4. COMPLETION OF THE SAND AROUND THE TANK, (300MM LAYERS).
5. ALL BURIED PIPE WORK SHALL BE COVERED BY BACKFILL OF THICKNESS AT LEAST 300MM.
6. PRESSURE TEST OF THE PIPE WORK AND TANK AT 30 KPA (SUCTION LINES), SUBMERSIBLE LINES ON 1000 KPA.
7. CASTING OF THE 150MM REINFORCED CONCRETE SLAB WITH 2 LAYERS 8MM STEEL REINFORCING, TOP AND BOTTOM -30 MPA AFTER 30 DAYS, (PROOF MUST BE SUBMITTED).

IF ANY GROUND WORK AND / OR LEVELS ARE DONE AFTER COMPLETION OF THE INSTALLATION, A PRESSURE TEST WILL AGAIN BE REQUIRED.

SABS APPROVED SYMBOLIC 'NO SMOKING' SIGNS MUST BE PROVIDED.

GENERAL

APPLICATION FOR A CERTIFICATE OF REGISTRATION MUST BE APPLIED FOR AT THE FIRE DEPARTMENT, ON COMPLETION OF THE INSTALLATION BEFORE ANY PRODUCT IS DECANTED INTO THE TANK.

