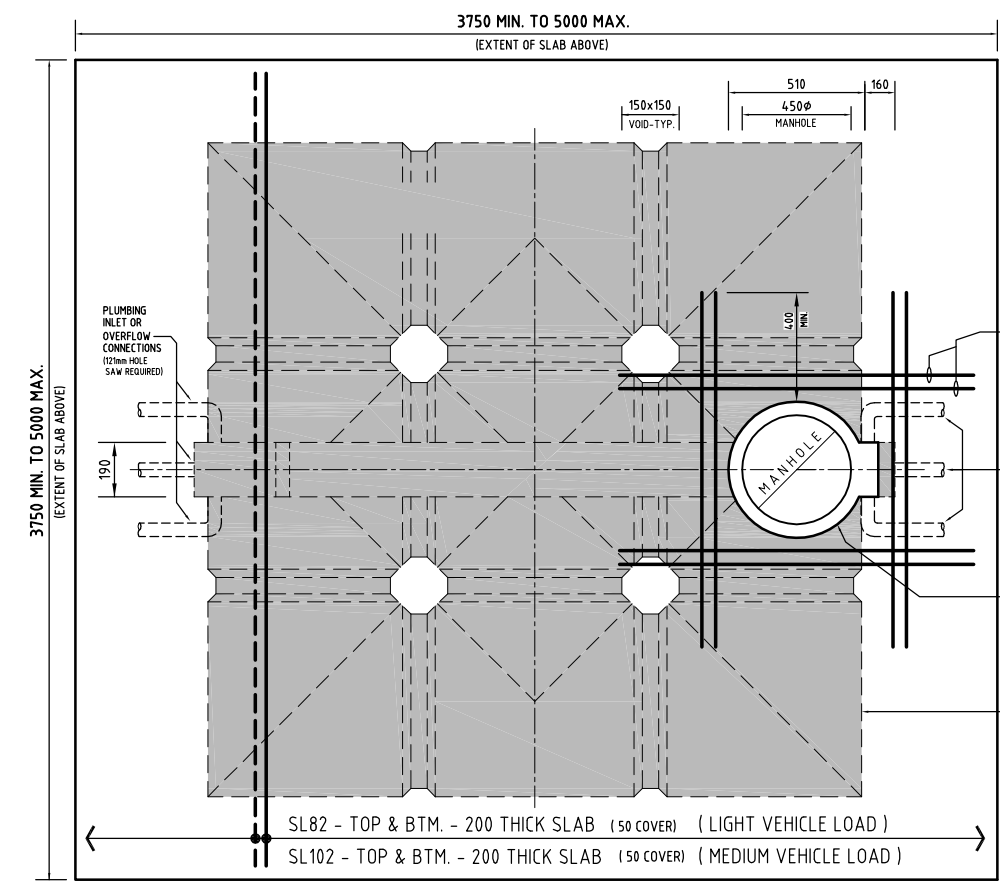
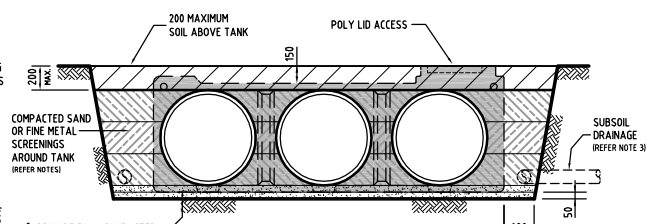


**TYPICAL SECTION THROUGH TANK**



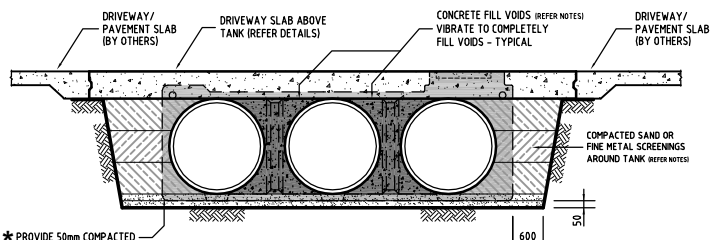
**CONCRETE SLAB TO TANK - PLAN (TOP VIEW)**



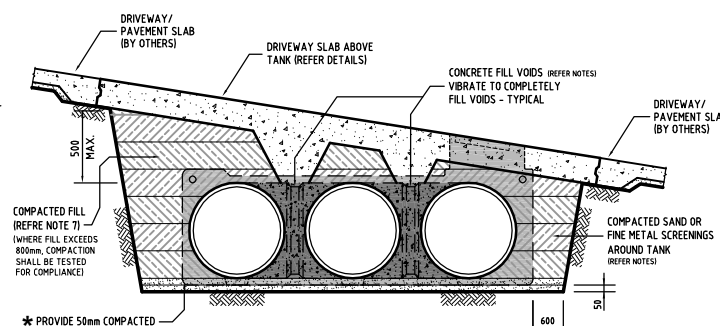
**SITE 1 - DRY YARD (SOIL COVER)**

THIS INSTALLATION IS ONLY SUITABLE FOR SITES MEETING ALL THE FOLLOWING CRITERIA:

1. THE TANK SITE IS NOT SUBJECT TO TRAFFIC.
2. THE SITE IS NOT SUBJECT TO FLOODING.
3. THE SITE GROUND WATER LEVELS DO NOT RISE ABOVE THE BASE OF THE TANK. SUB SOIL DRAINAGE MAY BE PROVIDED TO ENGINEER'S RECOMMENDATIONS TO RELIEVE GROUND WATER AND POSSIBLE FLOTATION, PARTICULARLY ON A SLOPING SITE. (OTHERWISE ADOPT INSTALLATION AS FOR SITE 2 OR 3, OR SEEK ENGINEERING ADVICE ON ALTERNATIVE MEANS OF RESISTING POSSIBLE TANK FLOTATION.)

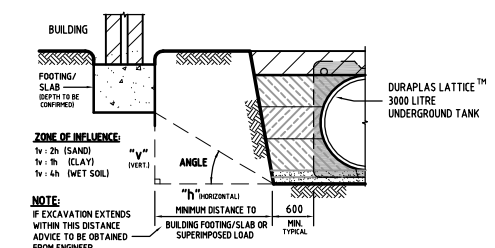


**SITE 2 - LEVEL DRIVEWAY/PAVEMENT**



**SITE 3 - INCLINED DRIVEWAY**

**TYPICAL CONFORMING INSTALLATIONS**



**TANK ADJACENT TO BUILDING**

**INSTALLATION NOTES:**

1. TANKS SHALL BE INSTALLED ON STABLE SITES WITH FOUNDATION MATERIAL FREE OF ORGANIC MATERIAL AND OF UNIFORM BEARING CAPACITY OF NOT LESS THAN 100 kPa.
2. WHERE FOUNDATION CONDITIONS ARE UNKNOWN, THE TANK INSTALLATION SHALL BE SUBJECT TO A GEOTECHNICAL ENGINEERING ASSESSMENT. FOR NON-CONFORMING SITES AND/OR LOADING SITUATIONS, INSTALLATION SHALL BE ASSSESSED BY A STRUCTURAL ENGINEER.
3. EXCAVATIONS TO BE FREE OF WATER BEFORE CONCRETING.
4. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARDS INCLUDING AS 3600 "CONCRETE STRUCTURES" ALSO BCA AND LOCAL COUNCIL REQUIREMENTS.
5. **CONCRETE QUALITY:**  
CONCRETE TO BE MINIMUM GRADE M25  
- 80mm SLUMP  
- 20mm MAXIMUM AGGREGATE.
6. **DESIGN LOADING - SITE 2 OR 3:** (AS/NZS 1170.1: 2002)  
**LIGHT VEHICLE TRAFFIC:**  
VEHICLES NOT EXCEEDING 2500kg GROSS MASS.  
- MAXIMUM VEHICLE TRAFFIC  
VEHICLES NOT EXCEEDING 10000kg GROSS MASS.
7. **BACKFILL:**  
**LIGHT VEHICLE TRAFFIC:** CLEAN GRANULAR FILL (EG SAND OR FINE METAL SCREENINGS)  
**MEDIUM VEHICLE TRAFFIC:** CEMENT STABILIZED SAND (1:1:10) OR HIGH STRENGTH (1:1:1) HIGH PRESTRIKED TRUCK DELIVERED 1  
**PLACEMENT:**  
FILL TANK WITH CLEAN WATER.  
PLACE BACKFILL IN 200mm MAX. LAYERS EVENLY AROUND TANK PERIMETER TAKING CARE TO FILL ALL VOIDS, AND COMPACT AS "CONTROLLED FILL" IN ACCORDANCE WITH AS 2870. EACH LAYER TO BE COMPACTED WITH A VIBRATING PLATE OR ROLLER. FILL SHALL BE COMPACTED TO ACHIEVE A DENSITY INDEX NOT LESS THAN 65%. WHERE DEPTH OF FILL EXCEEDS 800mm COMPACTION SHALL BE TESTED FOR COMPLIANCE.
8. **CONCRETE PLACEMENT:**  
- POUR CONCRETE THROUGH CENTRE CORES AND VIBRATE TO ENSURE CONCRETE DISTRIBUTION AND ELIMINATE VOIDS.  
- MAINTAIN REINFORCEMENT COVER DURING POUR.  
- PROVIDE NON-SLIP FINISH TO TRAFFICABLE SURFACE.
9. **LAP TO REINFORCING FABRIC:**  
LAPS AND SPLICES TO REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS AND TO THE DIMENSIONS SHOWN. TYPICAL FABRIC LAP, UNLESS NOTED OTHERWISE:
10. REINFORCEMENT TO DRIVEWAY SLAB MAY BE INCREASED TO PROVIDE STRONGER CONTROL ON SHRINKAGE CRACKING.

Do not scale drawing. Use written dimensions.

Issue	Date	Amendment	A
C	MAY '12	NOTES ADDED/ALTERED.	
B	MAY '06	MINM EXCAVATION ALTERED.	
A	MAR '06	DETAILS ALTERED.	

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Client: **DURAPLAS TANKS**

Project: **3000 LITRE LATTICE™ UNDERGROUND TANK**  
PATENT No. 2005 203055

Title: **INSTALLATION FOR UNDERGROUND TANK**

Date	NOT TO SCALE	Drawn	Issue
Design	GPM./ZW.	Date	MARCH 2006
Drawn	JIM.Z.	Drawn Name	6200-stc.dwg
Checked	APP	Approved	
Job No	05/6200	Draw No	S1
			C



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## DURAPLAS LATTICE UNDERGROUND TANK MAINTENANCE GUIDELINES

### LU3000 & LU5000 Models

- 1) Periodically check that all gutters, that are collecting rainwater for the tank are cleaned. This will vary depending on the location of trees etc but should be at least carried out every 3 months.
- 2) Check and clean any first flush or leaf-eater devices at regular intervals – at least every three months.
- 3) Remove the manhole cover every 12 months and visually inspect the tank internal. Pump out any sludge build up as required.
- 4) If an external pump is used ensure that it is under cover and there are no visible leaks – repair if necessary.
- 5) Check that the changeover unit is free from leaks and is operating correctly. This should be carried out every 12 months.