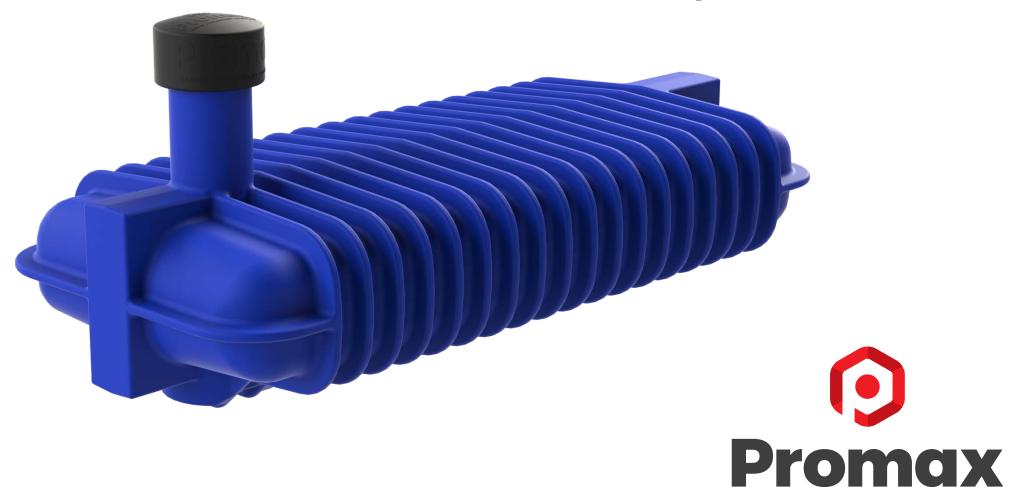
# Underground ENDURO LP Series Installation Guide 2025 UELP01000DB / UELP01500DB



#### **Underground ENDURO Series Installation Specifications**



Promax polyethylene
Underground ENDURO
Series Tanks must be
installed according to
these instructions.

Local Council regulations may apply and should by consulted. Failure to follow these installation instructions will void the warranty and may result in tank failure. Proper installation of underground tanks is required to prevent tank damage and insure long term trouble free service.

It is imperative to read and understand the instructions below prior to any installation commences.

Promax will not be held liable for any cost associated with poor installation. Customer must check all ground conditions and installation guide with an engineer before installation of tanks.

#### 1. Handling

- Do not roll or drop tank.
- Only use appropriate lifting equipment with enough evenly spaced banded strops to unload, lift or move tanks - see handling diagram below
- Do not stand on tank while being lifted. Always place tanks on smooth ground, free of rocks and Harmful objects. Tanks must be secured in high wind areas to prevent damage before being installed.
- Any mishandling makes void all warranties given.

## 2. Tank Location Proximity To Nearby Structures:

- The location of the tank excavation is the responsibility
  of the contractor and the tank owner. The contractor
  is to follow the limitations of the diagrams shown or
  notify a chartered professional engineer for a site
  specific consultation.
- Contractor to ensure nearby foundations of new and/ or existing structures are not undermined by the excavation for the tank.

If tank excavation location does not comply with the requirements below - contractor to notify chartered professional engineer for a site specific consultation:

 Tank position near house: 45 degree line of influence to begin 1000mm min from edge of house foundations. Contractor to determine foundation depths/locations prior to excavation.

- Tank position near retaining wall: 45 degree line of influence to begin at a distance of a minimum of twice the height retaining away from the edge of the retaining wall posts.
- Contractor to determine prior to excavation.

#### 3. Excavation Clearance

 Contractor to ensure a minimum of 150mm between edge of tank and edge of excavation wall at the narrowest location.

#### Soil conditions:

 This design assumes site soils will meet the requirements of nzs3604:2011 classification of 'good ground'. Contractor to confirm site exhibits these properties or notify chartered Professional engineer for consultation.

The Promax ENDURO Super
Duty Underground Tank is the
first, and only, tank in NZ to be
certified to the latest standards AS/
NZS4766:2020.

#### **Underground ENDURO Series Installation Specifications**



#### 4. Backfill & Base Course

#### Backfill and base course material to be either;

- Crushed stone or gravel: washed, with angular particle sizes no larger than 13.2mm with no more than 5% passing a 2.36mm sieve. Dry density must not be less than 1500kg/cubic meter.
- Naturally rounded gravel: clean naturally-rounded aggregate with particle sizes no larger than 19mm with no more than 5% passing a 2.36mm sieve. Dry density must not be less than 1500kg/ cubic meter.
- Approved backfill (i.e Gap 7) should not be mixed with sand or native soils and should always be brought up to at least the tank crown level. The use of non-specified backfill material could result in tank failure
- Contractor to work in maximum backfill lifts of 300mm. After each lift, contractor to use long handled probe to work the backfill material under the entire length of the tank and within any ribs.
- All voids and spaces should be filled to ensure adequate support of tank.

#### 5. Backfill, Depth & Cover

#### See attached relevant drawings

See attached relevant drawings. Stated depths
assume dry ground and no hydraulic loads. Consult
Promax for achoring advice if saturated ground or
high water table is possible or expected.

#### 6. Anchoring

- For tank burial where the need for anchoring has been evaluated and found advisable use the promax deadman anchor solution.
- The weight of overburden on top of the deadman and tank provides the anchoring force. Lay deadman along each side and parallel to tank. The tank must not 'overshadow' the deadman anchor.
   Deadman anchors are available from promax plastics.

#### A) backfill

When using anchors, tanks must be backfilled with approved drainage metal to be effective

#### B) hold down strapping

Use the hold-down straps provided in between ribs using 1m spacing (500mm with 1900mm dia tanks) straps should be snug but cause no tank deflection.

#### 7. Manhole Access Points

- The standard manway is 600 mm in diameter and can be extended using addition manhole extension risers.
- Tank will come with standard polyethylene lid which is suitable for garden application only.
- If being used in a pedestrian or trafficable area a steel manhole lid is

advisable. Using the Promax adjustable height riser makes this simple, it has a recess for concrete to eliminate direct traffic loading onto the tank from vehicles.

# 8. Refer to structural specifications sheet for concrete reinforcing & other notes

#### See attached relevant drawings

 See attached relevant drawings. Stated depths assume no hydraulic loads. Consult Promax if high water table is possible or expected.

**Promax Deadman Anchor System** 



#### NOTES:

REFER ARCHITECTURAL DRAWINGS & SPECIFICATIONS FOR STANDARD NOTES. ALL STRUCTURAL WORK TO COMPLY WITH THE CURRENT NEW ZEALAND BUILDING CODE "NZBC

THE CONTRACTOR TO CHECK ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORK THE DRAWINGS ARE TO BE READ WITH ALL RELEVANT ARCHITECT AND ENGINEERS DRAWINGS AND

SPECIFICATIONS FOR CONSTRUCTION DETAILS.
DESIGN LIVE LOADS CONSIDERED: GARAGE: 2.5kPa, DECK: 2kPa, OTHER LIVING AREA: 1.5kPa OUTDOOR LIVING: 2kPa

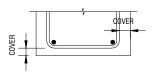
CONCRETE:

- MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH NZS3109, CONCRETE CONSTRUCTION
- ALL CONCRETE AND BLOC KWORK TO BE VIBRATED WITH MECHANICAL VIBRATION DURING POUR, COMPACTION SHALL COMPLY WITH NZS3109, CONCRETE CONSTRUCTION.
- CONCRETE SURFACES SHALL BE AS FOLLOWS (UNO):

FORMED FOUNDATION SURFACES CONCEALED FORMED SURFACES EXPOSED FORMED SURFACES EXTERIOR SLAB FINISHED INTERNAL SLAB FINISHED SLABS TO BE TILED

VALUES AS DEFINED IN NZS3114, SPECIFICATION FOR CONCRETE SURFACE FINISHES

- CONCRETE MUST BE CURED USING APPROPRIATE CURING METHOD FOR MINIMUM 7 DAYS. REFER TO SPECIFICATION AND DRAWINGS FOR CONSTRUCTION JOINTS AND SAWCUTS. ALL SAWCUTS 3mm WIDE x25mm DEEP TO BE MADE WITHIN 24 HOURS OF SLAB POUR. SAWCUTS SPACING TO BE MAXIMUM 6m
- UNLESS OTHERWISE STATED ON THE DRAWINGS, THE FOLLOWING MINIMUM CONCRETE STRENGTHS AND COVERS SHALL BE USED:



	STRENGTH	COVER		
	(MPa)	IN CONTACT WITH GROUND	EXPOSED TO WEATHER	NOT EXPOSED TO WEATHER
		(mm)	(mm)	(mm)
GROUND BEAMS	25	75	50	50
SLAB ON GRADE	25	75	40	30
SITE CONCRETE	10	N/A	N/A	N/A
CONCRETE PILE	25	75	75	N/A

- CONTRACTOR SHALL CHECK ALL DIMENSIONS PRIOR TO COMMENCEMENT
- ALL MATERIALS SHALL BE IN ACCORDANCE WITH RELEVANT NEW ZEALAND STANDARDS INCLUDING N7S3404
- ALL STEEL COMPONENTS SHALL TO HAVE STRENGTH OF AT LEAST GRADE 300MPa
- UNLESS NOTED OTHERWISE:

STEEL:

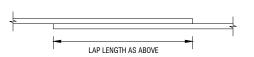
- ALL WELDS TO BE 6mm CONTINUOUS FILLET WELD OR EQUIVALENT
- ALL WELDS TO BE CATEGORY SP
- ALL BOLTS TO BE MINIMUM M12 GRADE 8.8/S TO AS1252 WITH SUITABLY SIZED WASHERS AND TO BE H.D. GALVANISED IN 14mm DIAMETER HOLES U.N.O.
- ALL CLEAT PLATES AND STIFFENERS TO BE MINIMUM 8mm THICK. U.N.O.
- ALL BUTT WELDS SHALL BE FULL STRENGTH BUTT WELDS.
- ALL BUTT WELDS SHALL BE CATEGORY SP.
- ALL OTHER WELDS MAY BE CATEGORY GP.
- ALL WELDS TO PORTAL FRAME RAFTERS, COLUMNS AND SPLICES SHALL BE CATEGORY SP.
- WELDS SHALL CONFORM TO AS/NZS 1554 AND WELDING ELECTRODES TO AS/NZS 1553, WELDING SHALL BE PERFORMED BY AN EXPERIENCED OPERATOR. THE INSPECTION/TESTING OF ALL WELDS SHALL BE CARRIED OUT BY QUALIFIED PERSONNEL IN ACCORDANCE WITH AS2214 AND FOLLOWING THE RECOMMENDATIONS OF TABLE D1 OF NZS3404.
- ALL BOLTS SHALL BE OF SUCH LENGTH THAT AT LEAST ONE FULL THREAD IS EXPOSED BEYOND THE NUT AFTER THE NUT HAS BEEN TIGHTENED. A MINIMUM OF ONE WASHER SHALL BE USED UNDER THE NUT IN ALL SITUATIONS
- ALL EXPOSED STEEL ELEMENTS TO BE HOT DIPPED GALVANISED
- PAINT ALL INTERNAL STEELWORK WITH ONE COAT OF ZINC PHOSPHATE PRIMER, 50 TO 70  $\mu$ m DRY FILM THICKNESS. AND TOP COAT IN COLOUR SELECTED BY OWNER, ALL WORK IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.
- 12. ALL COATS APPLIED IN SHOP.

#### REINFORCEMENT:

- ALL STEEL REINFORCEMENT IS TO BE COMPLIANT WITH AS/NZS 4671, STEEL REINFORCING MATERIALS, AND SHALL BE MICRO-ALLOY STEEL, DUCTILITY CLASS 'E'.
- REINFORCEMENT IS DESIGNATED AS FOLLOWS
- MILD STEEL (GRADE 300E) PLAIN R
- MILD STEEL (GRADE 300E) DEFORMED D
- HIGH YIELD (GRADE 500E) PLAIN HR HIGH YIELD (GRADE 500E) DEFORMED - HD
- NO WELDING, HEATING OR REVERSE BENDING (RE-BENDING) OF BARS IS ALLOWED WITHOUT THE CONSENT OF THE ENGINEER. WELDING SHALL COMPLY WITH AS/NZS 1554.3. REVERSE BENDING IS TO BE DONE IN ACCORDANCE WITH PACIFIC STEEL'S BROCHURE, "DON'T BEND THE RULES".
- LAPS IN REINFORCEMENT ARE TO BE MADE ONLY IN THE POSITIONS SHOWN AND SHALL BE (UNLESS NOTED OTHERWISE):

DEFORMED BARS	10	12	16	20	25	28	32
GRADE 300E - D	400	480	640	800	1000	1120	1280
GRADE 500E - HD	650	780	1040	1300	1625	1820	2080

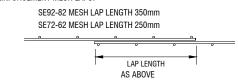
- TYPICAL LAP TYPES ARE AS FOLLOWS:
- PARALLEL LAP TYPICAL FOR SLABS AND BLOCK WALLS UNLESS DETAILED OTHERWISE:



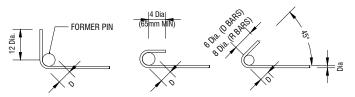
OFFSET LAP - TYPICAL FOR BEAMS, COLUMNS AND R.C. WALLS UNLESS DETAILED



REINFORCEMENT MESH LAPS



LINEESS STATED OR DETAILED OTHERWISE ON THE DRAWINGS. THE FOLLOWING HOOK & BEND DIAMETERS ARE TO BE USED. WHERE THE DIAMETER OF THE BAR ENCLOSED BY THE BEND BAR IS GREATER THAN THE MINIMUM BEND DIAMETER. THE BAR ENCLOSED SHALL GOVERN



#### PRINCIPAL REINFORCEMEN

STEEL GRADE	BAR SIZE	DIAMETER, D MIN BEND	
300 OR	6 - 20	5 Dia	
500MPa	25 - 40	6 Dia	

TIES & STIRRUPS		BAR TYPE		
STEEL GRADE	BAR SIZE	PLAIN DIAMETER, D	DEFORMED DIAMETER, D	
300 OR	6 - 20	2 Dia	4 Dia	
500MPa	25 - 40	3 Dia	6 Dia	

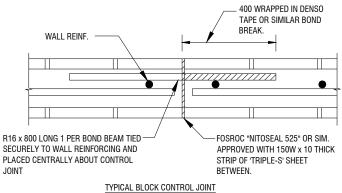
#### **BLOCKWORK:**

- ALL BLOCKWORK SHALL BE CONSTRUCTED UNDER THE SUPERVISION OF A REGISTERED MASON WHO SHALL PROVIDE CONTINUOUS INSPECTION. ALL WORK SHALL COMPLY WITH NZS 4210, MASONRY CONSTRUCTION - MATERIALS AND WORKMANSHIP. CONNECTORS AND ACCESSORIES SHALL COMPLY WITH NZS 2699.2. CONNECTORS AND ACCESSORIES
- BLOCKWORK TO BE TYPE 'B' FULLY GROUTED UNO. ALL CELLS ARE TO BE SOLID FILLED (UNO). THE CONTRACTOR IS TO PROVIDE NECESSARY PROPPING TO ENSURE STABILITY OF BLOCKWORK WALLS DURING CONSTRUCTION.
- CONCRETE FOR FILLING BLOCKWORK TO HAVE A MINIMUM CONCRETE STRENGTH OF 20MPA
- PROVIDE VERTICAL BLOCKWORK CONTROL JOINTS AT 6.0m MAXIMUM ALONG LENGTH OF WALL
- SPLICES IN REINFORCEMENT BARS SHALL BE MADE ONLY IN THE POSITION SHOWN ON THE DRAWINGS OR AS OTHERWISE APPROVED BY THE ENGINEER. THE STANDARD SPLICE LENGTH SHALL BE AS NOTED IN THE TABLE BELOW, UNO

#### REINFORCEMENT SPLICE LENGTHS IN BLOCKWORK

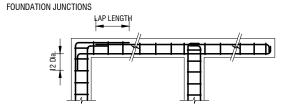
	"D" (30	0 MPa)	"HD" (500 MPa)			
	BAR DIAMETER	VERT.	HORIZ.	VERT.	HORIZ.	
	10	400	400	700	700	
	12	480	480	840	840	
	16	640	640	1120	1120	
	20	800	800	1400	1400	

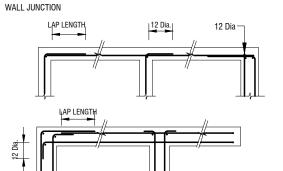
NOTE: REINFORCEMENT SPLICE LENGTHS OF TOP HORIZONTAL REINFORCEMENT WHERE MORE THAN 300mm OF FRESH GROUT IS CAST IN THE COMPONENT BELOW THE BAR SHALL BE MULTIPLIED BY FACTOR 1.3.



#### FOUNDATION AND WALL JUNCTION:

LAP LENGTH 





#### TIMBER:

- ALL MATERIALS AND WORKMANSHIP ARE TO COMPLY WITH NZS3603 TIMBER STRUCTURES STANDARD AND NZS:3604:2011 U.N.O.
- CHEMICAL PRESERVATION OF ROUND AND SAWN TIMBER SHALL COMPLY WITH NZS3640, CHEMICAL PRESERVATION FOR ROUND AND SAWN TIMBER.
- ALL FRAMING AND FIXING SHALL COMPLY WITH THE CURRENT NZS 3604 (U.N.O).
- ALL SAWN TIMBER (UNO) SHALL BE MINIMUM SG8
- ALL EXTERIOR STRUCTURAL BOLTS BRACKETS & STRAPS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANISED PLUS GALV PAINT PROTECTION
- GRADE 4.6 BOLTS SHALL HAVE WASHERS UNDER BOTH THE HEAD AND NUT WHEN DIRECTLY INTO TIMBER. WASHER SIZE (UNO) SHALL BE:

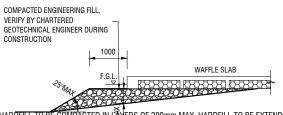
	BOLT SHANK Ø (mm)			8	10	12	16	20
WASHER DIMS (mm)	S	0	WITHOUT	20x20x1.5	50x50x3		50x50x6	
	R DIM	0	TENSION LOAD	25Øx1.5	60Øx4		60Ø4	
	0	WITH TENSION	30x30x2	50x50x5		65x65x6		
		0	LOAD	40Øx3	55Øx4		750	ðx6

#### DURABILITY:

- MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH NZS 3604 SECTION 4
- STEEL FIXINGS AND FASTENINGS SHALL BE IN ACCORDANCE WITH NZS3604 SECTION4 4.4.

#### FOUNDATION AND WALL JUNCTION:

- ALL FOUNDATION DESIGN IS BASED ON "GOOD GROUND" GEOTECHNICAL CONDITIONS AS PER NZS3604:2011 IN TERMS OF "BEARING STRENGTH OF SOIL". THE EXPANSIVITY OF THE SOIL HAS BEEN ASSUMED AS "MODERATELY EXPANSIVE 'M' CLASS SOIL" AS PER AS2870:2011
- GEOTECHNICAL ENGINEER IS TO VERIFY ALL GROUND CONDITION AND COMPACTION PRIOR TO ANY FOUNDATION WORKS AFTER EXCAVATION
- THE DESIGN OF THE FOUNDATION HAS ASSUMED AN MINIMUM INSITU UNDRAINED SOIL SHEAR STRENGTH OF Cu=75kPa AND MODERATELY EXPANSIVE SOIL (CLASS H2). THE ULTIMATE CAPACITY IS 300kPa, 150kPa IS USED IN THE DESIGN FACTORED WITH 0.5. THIS DESIGN ASSUMPTION SHALL BE CHECKED ON SITE DURING CONSTRUCTION BY A CHARTERED PROFESSIONAL ENGINEER.
- SHOULD THE CONTRACTOR ENCOUNTER ANY UNRELIABLE SOIL MATERIAL THE OWNER AND THE DESIGN ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR FURTHER INSTRUCTION. DO NOT CONSTRUCT ON WEAK GROUND.
- THE GROUND SHALL BE STRIPPED OF ALL TOPSOIL, WEAK GROUND TO A LEVEL AT LEAST 350mm BELOW THE FINISHED SLAB LEVEL AND MINIMUM 1m BEYOND THE BUILDING PLATFORM.FILL ALL HOLES WITH COMPACTED METAL TO FORM A LEVEL SUB-BASE. ALL FILL SHALL BE CHECKED AND CERTIFIED BY A CHARTERED PROFESSIONAL ENGINEER PRIOR TO COMMENCING FOUNDATION WORK



- HARDFILL TO BE COMPACTED IN LEYERS OF 200mm MAX, HARDFILL TO BE EXTENDED MIN 1000mm BEYOND PARAMETER IN FILL SITURTION AND BATTERED AT 15° SLOPE TO HORIZONTAL
- IN CASE OF ANY UNEXPECTED GROUND CONDITIONS CONTRACTOR SHOULD CONTACT A GEOTECHNICAL CHARTERED PROFESSIONAL ENGINEER IMMEDIATELY
- THE CUT BUILDING PLATFORM MUST BE KEPT AT OR CLOSE TO ITS SATURATED WATER CONTENT
- CONTRACTOR TO CONFIRM LOCATION AND DIMENSIONS OF REBATES (IF ANY) SUCH AS GARAGE DOOR REBATE, BRICK VENEER REBATE, JOINERY REBATE, SHOWER REBATE ETC WITH ARCH'S DRAWING PRIOR TO COMMENCEMENT TO WORK. CONTRACTOR TO ALSO CONFIRM LOCATION OF LOAD BEARING WALLS WITH ARCH'S DRAWING.
- 10. PLUMBING AND SERVICES REQUIRED BENEATH THE SLAB SHALL BE CAREFULLY PLANNED AND LOCATED SO AS NOT TO COMPROMISE THE SLAB. NO DUCTS ARE ALLOWED ALONG THE CONCRETE RIBS OR EDGE BEAMS. ALL PLUMBING, DRAINAGE AND CENTRAL HEATING PIPES TO BE PLACED AS PER LOCATION ON ARCHITECTURAL DRAWINGS.
- DO NOT SCALE FROM DRAWING. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND FINISHED FLOOR LEVELS. ALL SETOUT DIMENSIONS AND LEVELS TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. PRE- POUR INSPECTION MUST BE CARRIED OUT BY A CHARTERED PROFESSIONAL ENGINEER TO ISSUE PS4
- THE POTENTIAL EFFECT OF SEASONAL GROUND MOVEMENT ON BRITTLE CLADDINGS SHOULD BE CONSIDERED BY CLADDING DETAILERS
- 25x3 SAW CUT SHALL BE CARRIED OUT AT 6m SPACING MAX ABOVE THE RIB ONLY WITHIN 24-48 HOURS AFTER CONCRETE SLAB IS LAID. POSITION OF SAW CUT IS CRITICAL. CUT SHALL BE DIRECTLY UNDERNEATH WALL, AND NOT PASS THROUGH TILED AREA.
- POLYSTYRENE PODS SHALL BE 1100SQx 220mn
- WHERE UNDER-FLOOR HEATING IS INSTALLED, THE SLAB THICKNESS SHOULD BE INCREASED TO
- 16. IF RECESS FLOOR FOR SHOWER IS REQUIRED, THE POLYSTYRENE PODS SHALL BE REDUCED IN THICKNESS SO AS TO MAINTAIN A CONSTANT TOPPING THICKNESS. RECESSES SHALL BE TRIMMED WITH 1HD12 ALL AROUND
- RIB-RAFT MAY CRACK DUE TO VARIOUS REASONS OF AMBIENCE AND CONSTRUCTION. THIS DOES NOT AFFECT THE STRUCTURAL INTEGRITY OF THE FOUNDATIONS
- 25mm SAND BLINDING AND DPM IS REQUIRED UNDER THE PODS
- PROVIDE 2HD12 TRIMMER BARS ACROSS ALL RE ENTRANT CORNERS OF THE SLAB.
- PROVIDE REINFORCING BARS IN THE FOUNDATION PADS AS DETAILED. I.E. MINIMUM HD12@200C/C
- 21. RIB STEEL SHALL BE 1HD12 CENTRALLY PLACED IN THE 100mm WIDE RIB UNLESS NOTED OTHERWISE
- ALL BARS SHALL BE LAPPED AT LEAST 750mm LONG, UNLESS APPROVED OTHERWISE BY DESIGN **ENGINEER**
- REINFORCEMENT BARS ARE DEFORMED GRADE 500E
- CONCRETE STRENGTH 25MPa. CONCRETE MUST BE CURED USING APPROPRIATE CURING METHOD FOR MINIMUM 7 DAYS
- 25. PLANTING TREES SHOULD BE AVOIDED NEAR THE FOUNDATION, AND MUST BE KEPT A DISTANCE OF 1.5 X THE MATURE HEIGHT OF THE TREE FROM THE FOOTING



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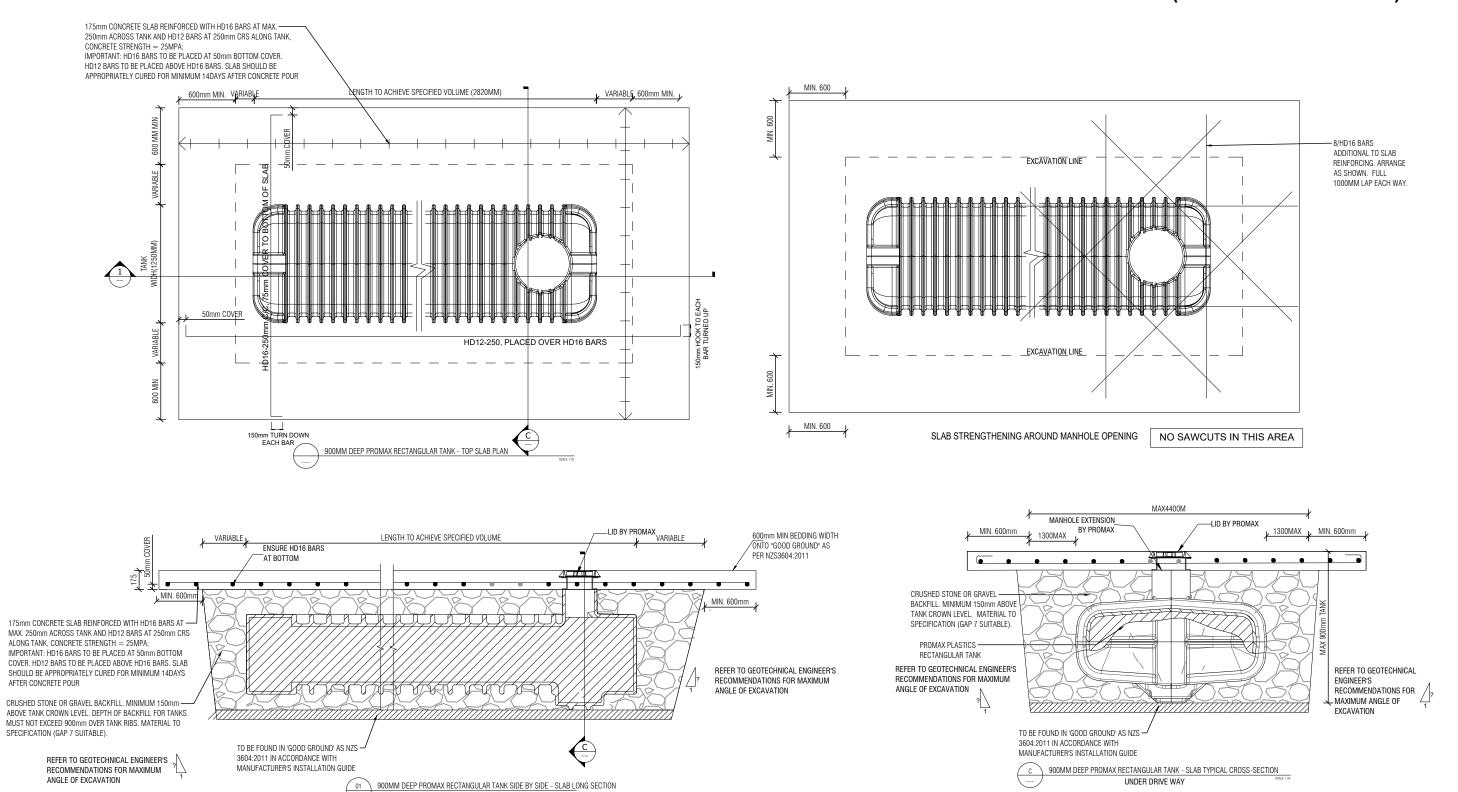
EMAIL: Info@prudentengineers.co.nz OFFICE: 09 962 6232 ADDRESS: 17E Greenmount Drive, East Tamaki, Auckland 2013 **PROPOSED** 

PROMAX PLASTIC TANK DETAILS

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DRAWING TITLE:		JOB NO:					
GENERAL NOTES		24-077					
CSK	APPROVED BY:	8/10/2024					
CHECKED BY:	SHEET NO:	SCALE:	А	ISSUED FOR BUILDING CONSENT	8/	/10/2024	
CSK	S001	AS SHOWN	REV.	DESCRIPTION		DATE	



### TANK INSTALLATION UNDER DOMESTIC DRIVE WAY-2500KG VEHICLE OR LESS(1000/1500Ltrs)





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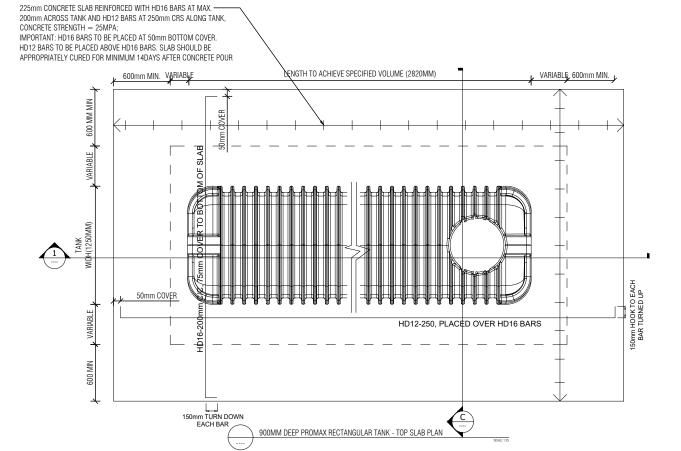
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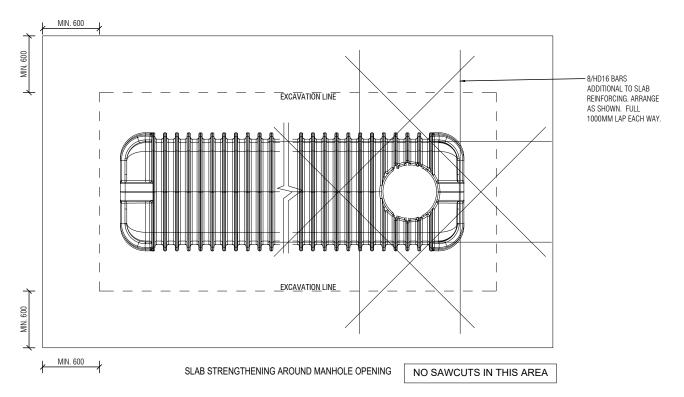
PROMAX PLASTIC TANK DETAILS

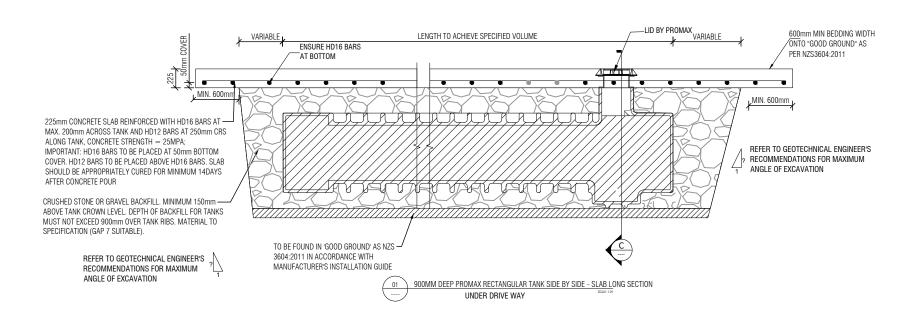
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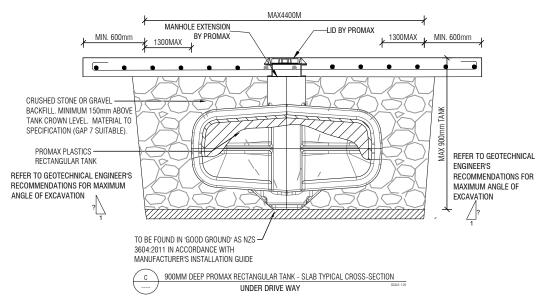


# TANK INSTALLATION UNDER COMMERCIAL DRIVE WAY VEHICLE NOT EXCEEDING 10,000KG(1000/1500Ltrs)











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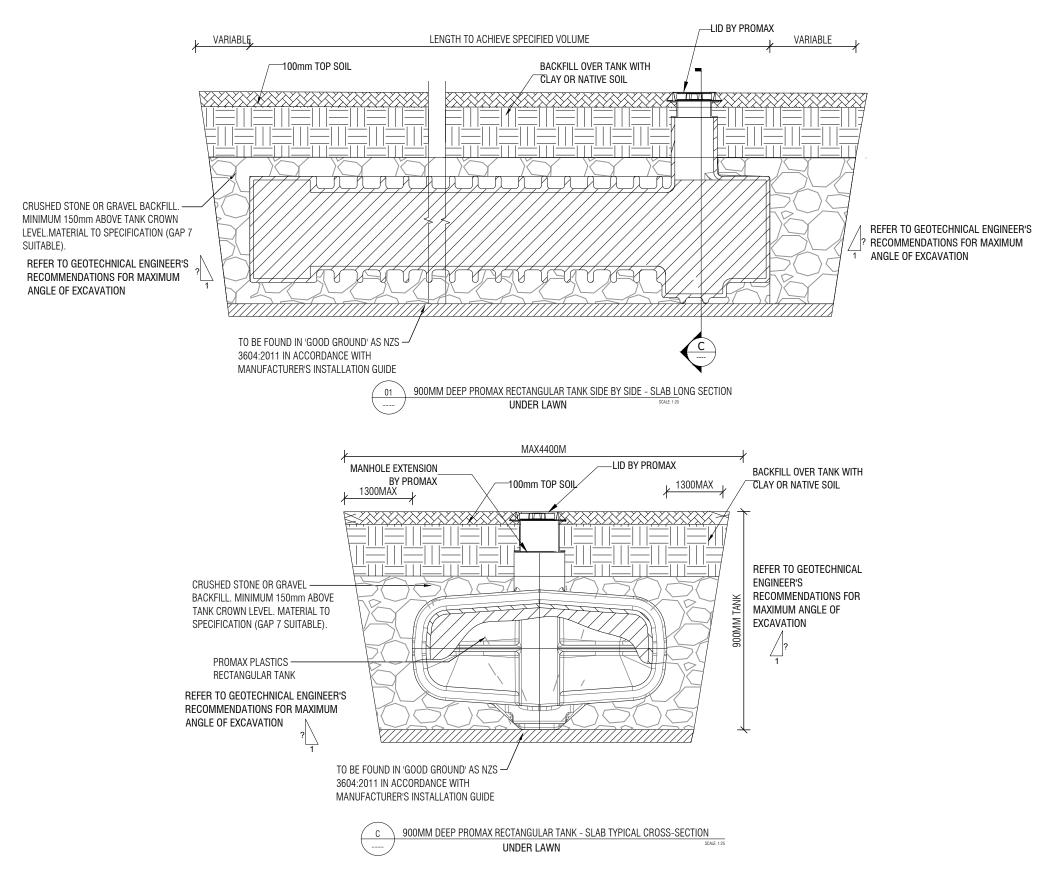
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PROMAX PLASTIC TANK DETAILS

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# FLAT TANK UNDER LAWN(1000/1500Ltrs)





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PROMAX PLASTIC TANK DETAILS

DRAWING TITLE:		JOB NO:				
PLASTIC 1	ANKDETAILS	24-077				
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REVISION NO.