



TYPICAL PIT DETAILS

STORM WATER PIT INTERNAL SIZE TABLE		
REFER AS3500.3:2015 TABLE 7.5.2.1		
MAXIMUM PIT DEPTH 'H'	WIDTH	LENGTH
600	450	450
900	600	600
1200	600	900
> 1200	900	900

STEEL GRATE LOAD CLASS TABLE – VALUES FROM AS5100.2				
LOAD CLASS	TYPICAL USE	NOMINAL WHEEL LOADING (kg)	SERVICEABILITY DESIGN LOAD (kN)	ULTIMATE LIMIT STATE DESIGN LOAD (kN)
A	AREAS (INCLUDING FOOTWAYS) ACCESSIBLE ONLY TO PEDESTRIANS AND PEDAL CYCLISTS AND CLOSED TO OTHER TRAFFIC (EXTRA LIGHT DUTY)	330	6.7	10
B	AREAS (INCLUDING FOOTWAYS AND LIGHT TRACTOR PATHS) ACCESSIBLE TO VEHICLES (EXCLUDING COMMERCIAL VEHICLES) OR LIVE STOCK (LIGHT DUTY)	2670	53	80
C	MALLS AND AREAS OPEN TO SLOW MOVING COMMERCIAL VEHICLES (MEDIUM DUTY)	5000	100	150
D	CARRIAGEWAYS OF ROADS AND AREAS OPEN TO COMMERCIAL VEHICLES (HEAVY DUTY)	8000	140	210

PIT WALL THICKNESS TABLE – VALUES FROM AS3500.3:2015		
MAX INTERNAL LENGTH (L)	MAXIMUM DEPTH (D)	WALL THICKNESS (T)
≤ 900	2400	150
≤ 900	3000	175
1200	1800	175
1200	2400	200
1200	3000	225
1500	1800	225
1500	2400	250
1500	3000	275

WHERE DEPTH OR WIDTH EXCEEDS THE DIMENSIONS SHOWN IN THE TABLE, PIT SHALL BE DESIGNED BY A COMPETENT STRUCTURAL ENGINEER.
ALL PITS ARE NOT TO BE REINFORCED UNLESS NOTED ON THE DRAWING

NOTES:

- DIMENSIONS ARE IN MILLIMETRES.
- COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS TO BE $F'c = 25 \text{ MPa}$.
- COVERS, GRATES AND FRAMES SHALL COMPLY WITH THE REQUIREMENTS OF AS3996 UNLESS OTHERWISE SPECIFIED ON PROJECT SPECIFIC DRAWINGS. LOAD CLASS OF COVER/GRATE SHALL BE DETERMINED UPON THE PLACE OF INSTALLATION AS GIVEN IN THE TABLE BELOW. USE CLASS D IF UNCERTAIN.
- SOLID TOP COVERS SHALL BE OF REINFORCED CONCRETE OR CAST IRON (GATIC). GRATED COVERS SHALL BE FABRICATED OF MILD STEEL AND HOT DIPPED GALVANISED. PROVIDE LOCKING DEVICE TO MANUFACTURER'S SPECIFICATION.
- Ø100 SUBSOIL DRAINAGE PIPE, 3000 LONG WITH END CAP, WRAPPED IN FABRIC SOCK TO BE PROVIDED IN TRENCHES ADJACENT TO ALL INLET PIPES.
- UNDER NO CIRCUMSTANCES SHALL PRECAST CONCRETE OR PLASTIC PITS BE USED IN PUBLIC ROADS OR CAR PARKS UNLESS BACKFILLED WITH 150 THICK CONCRETE.
- FABRICATED STEEL
 - ALL WELDS TO BE NEATLY FINISHED AND GROUND SMOOTH.
 - THE WELD CATEGORY SHALL BE 'SP' IN ACCORDANCE WITH AS1554.1.
 - ALL COMPONENTS SHALL BE HOT DIPPED GALVANISED IN ACCORDANCE WITH AS/NZS4680 AFTER FABRICATION.
- ALL EXPOSED EDGES SHALL HAVE 20x20 CHAMFERS UNLESS SHOWN OTHERWISE.
- FORTY EIGHT (48) HOURS NOTICE IS TO BE GIVEN PRIOR TO PLACING OF CONCRETE TO ALLOW FOR INSPECTION BY COUNCIL'S OFFICER.
- CLIMB IRONS SHALL BE PROVIDED FOR PITS DEEPER THAN 1200 TO AS1657. REF SD158

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APPROVED
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WINGECARRIBEE SHIRE COUNCIL			
STANDARD DRAWING			
GENERAL STORM WATER PIT DETAILS			
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