

Central Concrete Product Limited

Product Catalogue



January 2007

Concrete Pipes

Reinforced Concrete Pipe

Internal Diameter (mm)	Wall Thickness (mm)		Pipe Strengths		Pipe Length (mm)	Pipe Weight (kg)	
	B Wall	C Wall	B Wall	C Wall		B Wall	C Wall
300	50	n/a	Class III, IV, V	unavailable	1000	132	-
450	63	82	Class III, IV, V	Class IV, V	1000	245	345
600	75	94	Class III, IV, V	Class IV, V	1000	395	529
750	88	107	Class III, IV, V	Class IV, V	1000	570	719
900	100	119	Class III, IV, V	Class IV, V	1000	727	1000
1050	113	132	Class III, IV, V	Class IV, V	1000	1003	1190
1200	125	144	Class II, III, IV	Class IV	1000	1298	1550
1500	150	n/a	Class II, III, IV	unavailable	1000	1772	-
1800	175	n/a	Class II, III, IV	unavailable	1000	2523	-

	CLASS II	CLASS III	CLASS IV	CLASS V
D-Load to produce a 0.3mm crack $\text{kNm}^{-1} \text{mm}^{-1}$	50.0	65.0	100.0	140.0
D-Load to produce the ultimate load $\text{kNm}^{-1} \text{mm}^{-1}$	75.0	100.0	150.0	175.0

The above specifications follow ASTM C-76M

Non-Reinforced Concrete Pipes

Internal Diameter (mm)	Wall Thickness (mm)	Strength Class	Minimum strength (kNm⁻¹)	Pipe Weight (kg)
300	50	Class 3	38.0	132
450	63	Class 3	48.0	245
600	75	Class 2	52.5	395
	94	Class 3	64.0	529
750	88	Class 1	44.0	570
	107	Class 3	69.5	719
900	100	Class 1	48.0	727
	119	Class 3	73.0	1000

The above specifications follow ASTM C-14M and that standard does not specify requirements for pipe diameters exceeding 900mm.

Inverts for Surface Drainage

Width (mm)	Depth (mm)	Length (mm)	Internal Shape	External Shape	Internal Cross Section (m ²)	Weight	
						(lb)	(kg)
225	112	900	Circular	Octagonal	0.02	105	53
300	150	1000	Circular	Octagonal	0.035	153	70
450	150	1000	Elliptical	Octagonal	0.053	210	95
450	225	900	Circular	Octagonal	0.08	250	114
600	300	900	Trapezoidal	Trapezodial	0.15	315	143
600	300	900	Circular	Circular	0.14	290	132

The above products have neither primary nor secondary reinforcement

Valve Chamber Components

1. Valve Chamber Guard

It is common practice in Trinidad & Tobago to utilize standard reinforced concrete pipe (RCCP) as valve chamber guards.

- 450 x 600mm
- 450 x 1000mm

Please refer to the 'Reinforced Concrete Pipe' table.

2. Valve Chamber Cover

- Fits RCCP with same nominal diameter (450mm, 600mm or customer option).
- Top surface is flat, while the bottom surface is fitted with a male joint.
- 150mm thick concrete, excluding the male joint.
- Single cage reinforcement built in two layers with 9.5mm MS rods.
- Ductile iron valve box (Grade A per BS 5834) offers 150mm access and is placed centrally in cover.
- Drop-type lift handles constructed with 19mm MS rods.

Manhole Components

Straight Riser

	300-Riser	600-Riser	900-Riser	1200-Riser
length (mm)	300	600	900	1200
wall thickness (mm)	125	125	125	125
internal diameter (mm)	1200	1200	1200	1200
rung spacing (mm)	300	300	300	300
lift holes	2	2	2	2
rungs fitted	1	2	3	4

Eccentric Reducer

- 1200mm Φ → 600mm Φ reduction
- 900mm overall height
- 300mm rung spacing
- lift holes and rungs are included

Manhole Base

- 1800mm Φ x 200mm thick reinforced concrete
- grooved for 1200mm Φ riser fitting
- lift handles included

Concrete Manhole Cover

	LD Cover	MD Cover	HD Cover
concrete thickness (mm)	200	250	300
riser section accommodated (mm)	1200	1200	1200
manhole entrance (mm)	600	600	600
drop-type lift handles	2	2	2
recommended usage	light duty	medium duty	heavy duty
frame & cover positioning	cover rests in depression around manhole entrance		

Manhole Frame and Cover

	MF-555	MF-600
manhole entrance (mm)	555	600
load capacity (tonne)	125	250
material	ductile iron	ductile iron
recommended usage	light duty loading	medium duty loading
applicable standard	BS EN 124 B125	BS EN 124 C250