Reinforced Concrete Pipe



24" Class III RCP

Product Description

24" Class III Reinforced Concrete Pipe for use in concrete culverts, storm drains and sewers. O-ring watertight-gasketed joint, type-B wall.

Product standard

■ ASTM C76

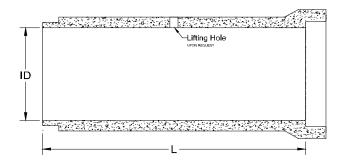
■ ASTM C497

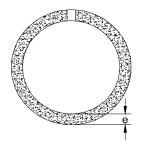
General			
Applications	Storm Drainage	■ Road and Highway	
	Sewer	Industrial	
Effective Length	■ 8.0 ft. (2.5m) ± 1%		

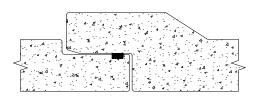
Raw Materials		Typical Value (Impe	erial)	Typical Value ([SI)	Test Method
Cement		Portland CPC 40RS)	Portland CPC 4	IORS	ASTM C-150
Fly Ash		ASTM C-618		ASTM C-618		ASTM C-618
Aggregates		< 3/16" in		< 4.75	mm	ASTM C-33
Aggregates		1/4" - 3/4" in		6.35 - 19.05	mm	ASTM C-33
Aggregates		1/4" - 3/8" in		9.5 - 6.35	mm	ASTM C-33
Steel Reinforcement	Inner Cage	0.07 in ² ,	/ft	1.5	cm2/m	ASTM A-496/497/615/706
Steel Reinforcement	Outer Cage	N/A in²,	/ft	N/A	cm2/m	ASTM A-496/497/615/706

Physical & Mechanical Properties	Typical Value (I	mperial)	Typical Value	(SI)	Test Method
D-Load to produce a 0.01-in. crack	2,910	lb/ft	4,331	kg/m	ASTM C-497
D-Load to produce the ultimate load	4,180	lb/ft	6,222	kg/m	ASTM C-497
Concrete Strength	4,000	psi	280	kg _f /cm ²	ASTM C-76
ID	24	in	610	mm	ASTM C-497
Wall Thickness, e	3	in	76	mm	ASTM C-497
Effective length, L	8.0	ft	2.5	m	ASTM C-497
Approx. Weight	2,370	lb	1,075	kg	ASTM C-497
Lifting Hole (if requested)	3	in, max	76	mm, max	TXDOT 464.2 A

Pipe and Joint Section Detail







Reinforced Concrete Pipe



30" Class III RCP

Product Description

30" Class III Reinforced Concrete Pipe for use in concrete culverts, storm drains and sewers. O-ring watertight-gasketed joint, type-B wall.

Product standard

■ ASTM C76

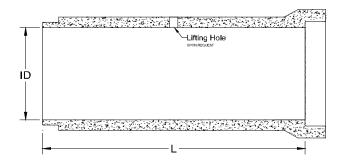
■ ASTM C497

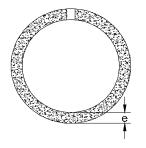
General			
Applications	Storm Drainage	■ Road and Highway	
	Sewer	Industrial	
Effective Length	■ 8.0 ft. (2.5m) ± 1%		

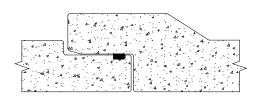
Raw Materials		Typical Value (Imperial)	Typical Value (SI)	Test Method
Cement		Portland CPC 40RS	Portland CPC 40RS	ASTM C-150
Fly Ash		ASTM C-618	ASTM C-618	ASTM C-618
Aggregates		< 3/16" in	< 4.75 mm	ASTM C-33
Aggregates		1/4" - 3/4" in	6.35 - 19.05 mm	ASTM C-33
Aggregates		1/4" - 3/8" in	9.5 - 6.35 mm	ASTM C-33
Steel Reinforcement	Inner Cage	0.18 in ² /ft	3.8 cm2/m	ASTM A-496/497/615/706
Steel Reinforcement	Outer Cage	N/A in²/ft	N/A cm2/m	ASTM A-496/497/615/706

Physical & Mechanical Properties	Typical Value (Imperial)	Typical Value	(SI)	Test Method
D-Load to produce a 0.01-in. crack	3,634	lb/ft	5,410	kg/m	ASTM C-497
D-Load to produce the ultimate load	5,221	lb/ft	7,772	kg/m	ASTM C-497
Concrete Strength	4,000	psi	280	kg _f /cm ²	ASTM C-76
ID	30	in	760	mm	ASTM C-497
Wall Thickness, e	4	in	89	mm	ASTM C-497
Effective length, L	8.0	ft	2.5	m	ASTM C-497
Approx. Weight	3,373	lb	1,530	kg	ASTM C-497
Lifting Hole (if requested)	3	in, max	76	mm, max	TXDOT 464.2 A

Pipe and Joint Section Detail







Reinforced Concrete Pipe



36" Class III RCP

Product Description

36" Class III Reinforced Concrete Pipe for use in concrete culverts, storm drains and sewers. O-ring watertight-gasketed joint, type-B wall.

Product standard

■ ASTM C76

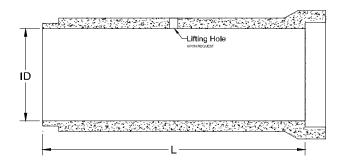
■ ASTM C497

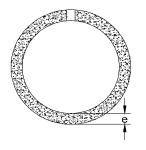
General			
Applications	Storm Drainage	■ Road and Highway	
	Sewer	Industrial	
Effective Length	■ 8.0 ft. (2.5m) ± 1%		

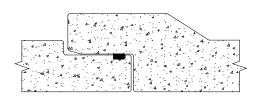
Raw Materials		Typical Value (Impe	rial)	Typical Value ((SI)	Test Method
Cement		Portland CPC 40RS		Portland CPC 4	10RS	ASTM C-150
Fly Ash		ASTM C-618		ASTM C-618		ASTM C-618
Aggregates		< 3/16" in		< 4.75	mm	ASTM C-33
Aggregates		1/4" - 3/4" in		6.35 - 19.05	mm	ASTM C-33
Aggregates		1/4" - 3/8" in		9.5 - 6.35	mm	ASTM C-33
Steel Reinforcement	Inner Cage	0.17 in ² /	′ft	3.6	cm2/m	ASTM A-496/497/615/706
Steel Reinforcement	Outer Cage	0.1 in ² /	′ft	2.8	cm2/m	ASTM A-496/497/615/706

Physical & Mechanical Properties	Typical Value (I	mperial)	Typical Value	(SI)	Test Method
D-Load to produce a 0.01-in. crack	4,359	lb/ft	6,489	kg/m	ASTM C-497
D-Load to produce the ultimate load	6,263	lb/ft	9,322	kg/m	ASTM C-497
Concrete Strength	4,000	psi	280	kg _f /cm ²	ASTM C-76
ID	36	in	910	mm	ASTM C-497
Wall Thickness, e	4	in	101	mm	ASTM C-497
Effective length, L	8.0	ft	2.5	m	ASTM C-497
Approx. Weight	4,542	lb	2,060	kg	ASTM C-497
Lifting Hole (if requested)	3	in, max	76	mm, max	TXDOT 464.2 A

Pipe and Joint Section Detail







Reinforced Concrete Pipe



42" Class III RCP

Product Description

42" Class III Reinforced Concrete Pipe for use in concrete culverts, storm drains and sewers. O-ring watertight-gasketed joint, type-B wall.

Product standard

■ ASTM C76

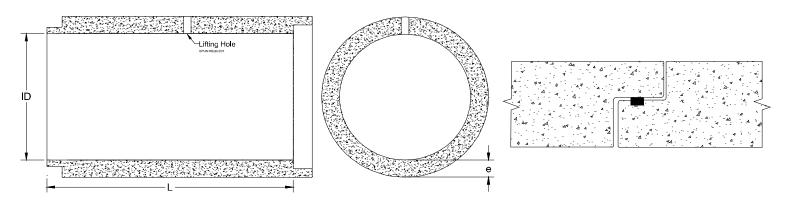
■ ASTM C497

General			
Applications	■ Storm Drainage	■ Road and Highway	
	Sewer	Industrial	
Effective Length	■ 8.0 ft. (2.5m) ± 1%		

Raw Materials		Typical Value (Imperial)	Typical Value (SI)	Test Method
Cement		Portland CPC 40RS	Portland CPC 40RS	ASTM C-150
Fly Ash		ASTM C-618	ASTM C-618	ASTM C-618
Aggregates		< 3/16" in	< 4.75 mm	ASTM C-33
Aggregates		1/4" - 3/4" in	6.35 - 19.05 mm	ASTM C-33
Aggregates		1/4" - 3/8" in	9.5 - 6.35 mm	ASTM C-33
Steel Reinforcement	Inner Cage	0.21 in ² /ft	4.4 cm2/m	ASTM A-496/497/615/706
Steel Reinforcement	Outer Cage	0.12 in ² /ft	3.4 cm2/m	ASTM A-496/497/615/706

Physical & Mechanical Properties	Typical Value (Imperial)	Typical Value	(SI)	Test Method
D-Load to produce a 0.01-in. crack	5,090	lb/ft	7,576	kg/m	ASTM C-497
D-Load to produce the ultimate load	7,311	lb/ft	10,883	kg/m	ASTM C-497
Concrete Strength	4,000	psi	280	kg _f /cm ²	ASTM C-76
ID	42	in	1,070	mm	ASTM C-497
Wall Thickness, e	4	in	114	mm	ASTM C-497
Effective length, L	8.0	ft	2.5	m	ASTM C-497
Approx. Weight	5,941	lb	2,695	kg	ASTM C-497
Lifting Hole (if requested)	3	in, max	76	mm, max	TXDOT 464.2 A

Pipe and Joint Section Detail



Reinforced Concrete Pipe



48" Class III RCP

Product Description

48" Class III Reinforced Concrete Pipe for use in concrete culverts, storm drains and sewers. O-ring watertight-gasketed joint, type-B wall.

Product standard

■ ASTM C76

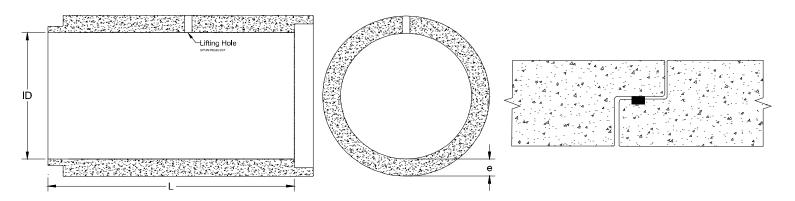
■ ASTM C497

General			
Applications	■ Storm Drainage	■ Road and Highway	
	Sewer	Industrial	
Effective Length	■ 8.0 ft. (2.5m) ± 1%		

Raw Materials		Typical Value (Imperial)	Typical Value (SI)	Test Method
Cement		Portland CPC 40RS	Portland CPC 40RS	ASTM C-150
Fly Ash		ASTM C-618	ASTM C-618	ASTM C-618
Aggregates		< 3/16" in	< 4.75 mm	ASTM C-33
Aggregates		1/4" - 3/4" in	6.35 - 19.05 mm	ASTM C-33
Aggregates		1/4" - 3/8" in	9.5 - 6.35 mm	ASTM C-33
Steel Reinforcement	Inner Cage	0.24 in ² /ft	5.1 cm2/m	ASTM A-496/497/615/706
Steel Reinforcement	Outer Cage	0.14 in ² /ft	3.8 cm2/m	ASTM A-496/497/615/706

Physical & Mechanical Properties	Typical Value (Imperial)	Typical Value	(SI)	Test Method
D-Load to produce a 0.01-in. crack	5,815	lb/ft	8,655	kg/m	ASTM C-497
D-Load to produce the ultimate load	8,353	lb/ft	12,434	kg/m	ASTM C-497
Concrete Strength	4,000	psi	280	kg _f /cm ²	ASTM C-76
ID	48	in	1,220	mm	ASTM C-497
Wall Thickness, e	5	in	127	mm	ASTM C-497
Effective length, L	8.0	ft	2.5	m	ASTM C-497
Approx. Weight	7,496	lb	3,400	kg	ASTM C-497
Lifting Hole (if requested)	3	in, max	76	mm, max	TXDOT 464.2 A

Pipe and Joint Section Detail



Reinforced Concrete Pipe



60" Class III RCP

Product Description

60" Class III Reinforced Concrete Pipe for use in concrete culverts, storm drains and sewers. O-ring watertight-gasketed joint, type-B wall.

Product standard

■ ASTM C76

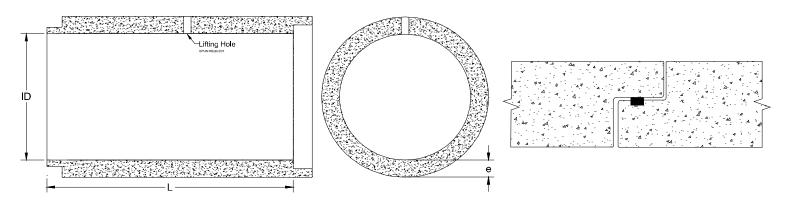
■ ASTM C497

General			
Applications	■ Storm Drainage	■ Road and Highway	
	Sewer	Industrial	
Effective Length	■ 8.0 ft. (2.5m) ± 1%		

Raw Materials		Typical Value (Imperial)	Typical Value ([SI)	Test Method
Cement		Portland CPC 40RS	Portland CPC 4	10RS	ASTM C-150
Fly Ash		ASTM C-618	ASTM C-618		ASTM C-618
Aggregates		< 3/16" in	< 4.75	mm	ASTM C-33
Aggregates		1/4" - 3/4" in	6.35 - 19.05	mm	ASTM C-33
Aggregates		1/4" - 3/8" in	9.5 - 6.35	mm	ASTM C-33
Steel Reinforcement	Inner Cage	0.34 in ² /ft	7.2	cm2/m	ASTM A-496/497/615/706
Steel Reinforcement	Outer Cage	0.2 in ² /ft	5.5	cm2/m	ASTM A-496/497/615/706

Physical & Mechanical Properties	Typical Value	(Imperial)	Typical Value	Typical Value (SI)	
D-Load to produce a 0.01-in. crack	7,269	lb/ft	10,820	kg/m	ASTM C-497
D-Load to produce the ultimate load	10,443	lb/ft	15,545	kg/m	ASTM C-497
Concrete Strength	4,000	psi	280	kg _f /cm ²	ASTM C-76
ID	60	in	1,520	mm	ASTM C-497
Wall Thickness, e	6	in	152	mm	ASTM C-497
Effective length, L	8.0	ft	2.5	m	ASTM C-497
Approx. Weight	11,210	lb	5,085	kg	ASTM C-497
Lifting Hole (if requested)	3	in, max	76	mm, max	TXDOT 464.2 A

Pipe and Joint Section Detail



Reinforced Concrete Pipe



72" Class III RCP

Product Description

72" Class III Reinforced Concrete Pipe for use in concrete culverts, storm drains and sewers. O-ring watertight-gasketed joint, type-B wall.

Product standard

■ ASTM C76

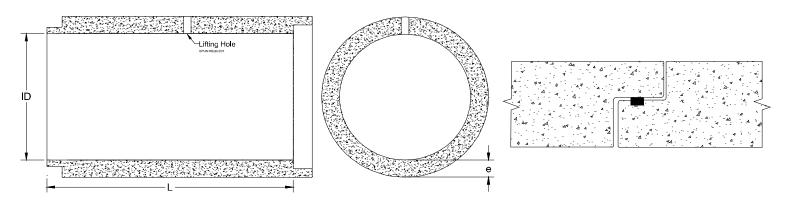
■ ASTM C497

General			
Applications	■ Storm Drainage	■ Road and Highway	
	Sewer	Industrial	
Effective Length	■ 8.0 ft. (2.5m) ± 1%		

Raw Materials		Typical Value (Imperial)	Typical Value (SI)	Test Method
Cement		Portland CPC 40RS	Portland CPC 40RS	ASTM C-150
Fly Ash		ASTM C-618	ASTM C-618	ASTM C-618
Aggregates		< 3/16" in	< 4.75 mm	ASTM C-33
Aggregates		1/4" - 3/4" in	6.35 - 19.05 mm	ASTM C-33
Aggregates		1/4" - 3/8" in	9.5 - 6.35 mm	ASTM C-33
Steel Reinforcement	Inner Cage	0.49 in ² /ft	10.4 cm2/m	ASTM A-496/497/615/706
Steel Reinforcement	Outer Cage	0.29 in ² /ft	7.8 cm2/m	ASTM A-496/497/615/706

Physical & Mechanical Properties	Typical Value (Ir	Typical Value (Imperial)		Typical Value (SI)	
D-Load to produce a 0.01-in. crack	8,724	lb/ft	12,986	kg/m	ASTM C-497
D-Load to produce the ultimate load	12,533	lb/ft	18,655	kg/m	ASTM C-497
Concrete Strength	4,000	psi	280	kg _f /cm ²	ASTM C-76
ID	72	in	1,830	mm	ASTM C-497
Wall Thickness, e	7	in	178	mm	ASTM C-497
Effective length, L	8.0	ft	2.5	m	ASTM C-497
Approx. Weight	15,648	lb	7,098	kg	ASTM C-497
Lifting Hole (if requested)	3	in, max	76	mm, max	TXDOT 464.2 A

Pipe and Joint Section Detail



Reinforced Concrete Pipe



84" Class III RCP

Product Description

84" Class III Reinforced Concrete Pipe for use in concrete culverts, storm drains and sewers. O-ring watertight-gasketed joint, type-B wall.

Product standard

■ ASTM C76

■ ASTM C497

General			
Applications	Storm Drainage	■ Road and Highway	
	Sewer	Industrial	
Effective Length	■ 8.0 ft. (2.5m) ± 1%		

Raw Materials		Typical Value (Imperial)	Typical Value (SI)	Test Method
Cement		Portland CPC 40RS	Portland CPC 40RS	ASTM C-150
Fly Ash		ASTM C-618	ASTM C-618	ASTM C-618
Aggregates		< 3/16" in	< 4.75 mm	ASTM C-33
Aggregates		1/4" - 3/4" in	6.35 - 19.05 mm	ASTM C-33
Aggregates		1/4" - 3/8" in	9.5 - 6.35 mm	ASTM C-33
Steel Reinforcement	Inner Cage	0.64 in ² /ft	14.7 cm2/m	ASTM A-496/497/615/706
Steel Reinforcement	Outer Cage	0.38 in ² /ft	11 cm2/m	ASTM A-496/497/615/706

Physical & Mechanical Properties	Typical Value (Imperial)	Typical Value	(SI)	Test Method
D-Load to produce a 0.01-in. crack	10,179	lb/ft	15,151	kg/m	ASTM C-497
D-Load to produce the ultimate load	14,623	lb/ft	21,767	kg/m	ASTM C-497
Concrete Strength	5,000	psi	350	kg _f /cm ²	ASTM C-76
ID	84	in	2,130	mm	ASTM C-497
Wall Thickness, e	8	in	203	mm	ASTM C-497
Effective length, L	8.0	ft	2.5	m	ASTM C-497
Approx. Weight	21,098	lb	9,570	kg	ASTM C-497
Lifting Hole (if requested)	3	in, max	76	mm, max	TXDOT 464.2 A

Pipe and Joint Section Detail

