

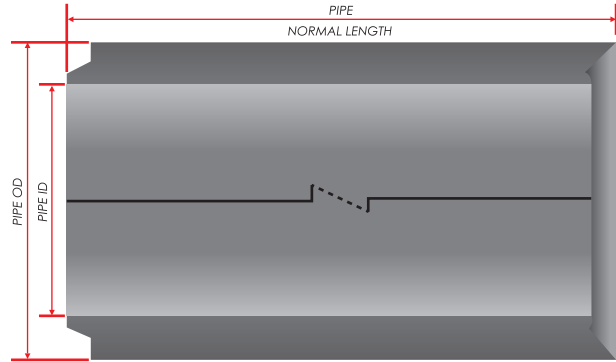
PRECAST REINFORCED CONCRETE

PIPE CULVERT





PIPE CULVERT



DESIGN AND SPECIFICATION

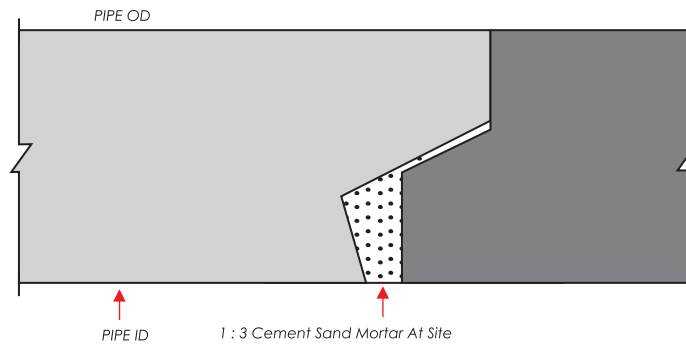
Standard : Designed to the MS 881 : Part 3 with Rebated joint
 Diameter Range : 300 mm - 1800 mm
 Strength Class : L , M , H (X , Y , Z)

JOINTS

(Pipe joints to be filled and flushed with 1 : 3 (by volume) cement sand mortar at site)

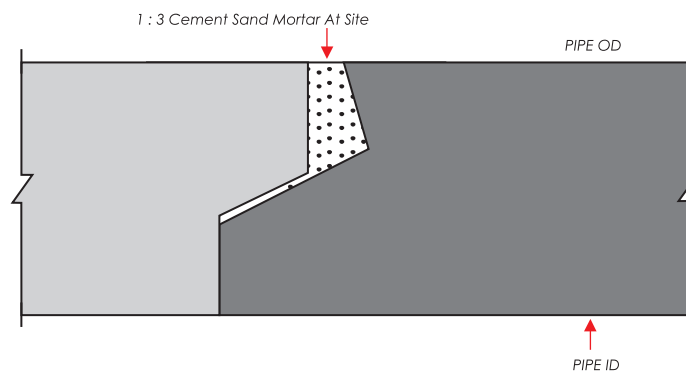
INTERNALLY FLUSHED JOINT

The pipe joints to be INTERNALLY flushed for pipe diameter 750 mm and above.



EXTERNALLY FLUSHED JOINT

The pipe joints to be EXTERNALLY flushed for pipe diameter 300 mm to 600 mm.



SIZE AND DIMENSIONS

SIZE	NOMINAL PIPE LENGTH	EXTERNAL DIAMETER	INTERNAL DIAMETER		WALL THICKNESS		ESTIMATE WEIGHT	
	(m)		(X)	(Y / Z)	(X)	(Y / Z)	(X)	(Y / Z)
300	1.52	360	300	300	30	30	0.115	0.115
375	1.52	445	375	375	35	35	0.170	0.170
450	1.52	520	450	440	35	40	0.200	0.230
600	1.52	690	600	590	45	50	0.350	0.390
750	1.52	870	760	740	55	65	0.590	0.700
900	1.52	1010	900	880	55	65	0.700	0.900
1050	1.52	1200	1050	1030	75	85	1.100	1.350
1200	1.52	1350	1200	1180	75	85	1.350	1.500
1350	1.52	1510	1350	1330	80	90	1.580	1.780
1500	1.52	1680	1500	1480	90	100	1.750	1.950
1650	1.52	1850	1650	1630	100	110	2.150	2.350
1800	1.52	2050	1800	1800	125	125	2.900	2.900

* Due to continuous improvement, the above technical information is subject to change without prior notice.

CRUSHING TEST LOADS FOR SEWERAGE PIPES

(Kilo Newton's per metre of effective length)

NOMINAL SIZE	CLASS L (X)		CLASS M (Y)		CLASS H (Z)	
	(mm)	Works Proof Load	Max. Load	Works Proof Load	Max. Load	Works Proof Load
300	20	25	23	29	-	-
375	20	25	31	39	36	45
450	20	25	35	44	41	52
600	20	25	46	58	54	68
750	38	48	53	67	65	81
900	46	58	67	84	85	106
1050	51	64	76	95	96	120
1200	58	72	87	109	110	138
1350	63	79	96	120	122	153
1500	69	87	104	130	132	165
1650	75	94	116	145	146	183
1800	82	103	124	155	158	198

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TEKUN CONCRETE (M) SDN. BHD.

(631383-X)



HEADQUARTER: Lot 922 Batu 11, Jalan Tekun Concrete, 84300 Bukit Pasir, Muar, Johor.
Tel: 06-9859 330 / 331 / 332 **Fax:** 06-9859 336 **Website:** www.tekunconcrete.com
Email: info@tekunconcrete.com / tekunconcretesb@gmail.com

TERENGGANU OFFICE / FACTORY : Lot 12724, Kawasan Perindustrian Wakaf Tapai, KM 29, Jalan Kuala Berang, 21040 Wakaf Tapai, Terengganu.
Tel: 09-6801 405 / 406 / 407 **Fax:** 09-680 1005 **Email:** trgtekun@hotmail.com

BAKRI BRANCH : Bt. 5 1/2, Jalan Bakri, 84000 Muar, Johor.

TEKAD HARMONI SDN. BND.

Transportation Business

Lot 2071 & 623, Parking Lot Sungai Terap, Bukit Pasir, 84300 Muar, Johor, Malaysia.
Tel: 06-985 8116 **Fax:** 06-985 9055 **H/P:** 012-684 4586



SIRIM

MS 881 : PART 3 : 1991 MS 881 : PART 3 : 1991
Cert : PC 002627



SIRIM

MS 881 : PART 3 : 1991 MS 881 : PART 3 : 1991
Cert : PC 002616



SIRIM

QS 02121999 CB 01

CERTIFIED TO ISO 9001 : 2015
CERT . NO : QMS 03411



SIRIM

QS 02121999 CB 01

CERTIFIED TO ISO 9001 : 2015
CERT . NO : QMS 02086



SIRIM

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CERT . NO : QMS 02086



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