

Safety Chains for Manhole Systems

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Safety Chains

In certain conditions, pipes over DN600mm should be provided with safety chains for placing at the mouth of the outgoing sewer, where men are at work. BS EN 752-3:1997

Chains kits are available in varying lengths to accommodate different diameter pipes. All components are manufactured from A4 stainless steel.

Each pack contains items below:

- 2 x M10 x 80mm through bolts
- 2 x M10 Eye nuts.
- 2 x 10mm x 25mm washer.
- 2 x 8mm D shackles
- 1 x length of 8mm short linked chain.
- 1 x instructions

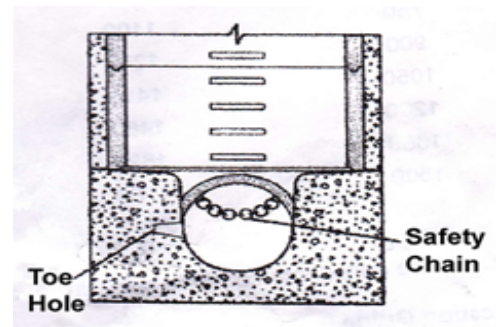


Fig 1
Bolt Setting Details

Bolt Fix Details

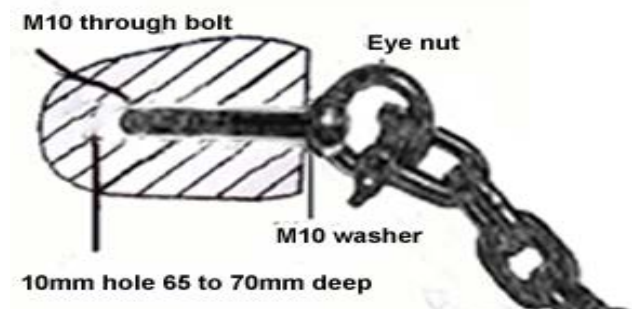


Fig 2



Fig 3

Application guide:

- (1) Mark off the hole centres as shown in Fig 4 using dimensions in table 1. Drill a 10mm hole, 70 to 75 mm deep.
- (2) Turn the eye nut so the top of the through type bolt is level with the inside of the eye nut as in Fig 3. Clean out the holes, and tap in the assembly until the shoulder of the eye nut is up against the concrete, as in Fig 2. Using an adjustable spanner or a bar through the eye nut, turn clockwise until sufficient torque is applied (30:40Nm) to secure the through bolt.
- (3) Cut chain to length or select the most appropriate link and place the D shackles on each end of the chain then attach each end to one of the eye nuts. When calculating the chain length take in to consideration the two D shackles, combined length 50mm.
- (4) The Safety Chain should now be suspended between the fastenings as in Fig 3.

Safety Chain Position Details (refer to Table 1 overleaf)

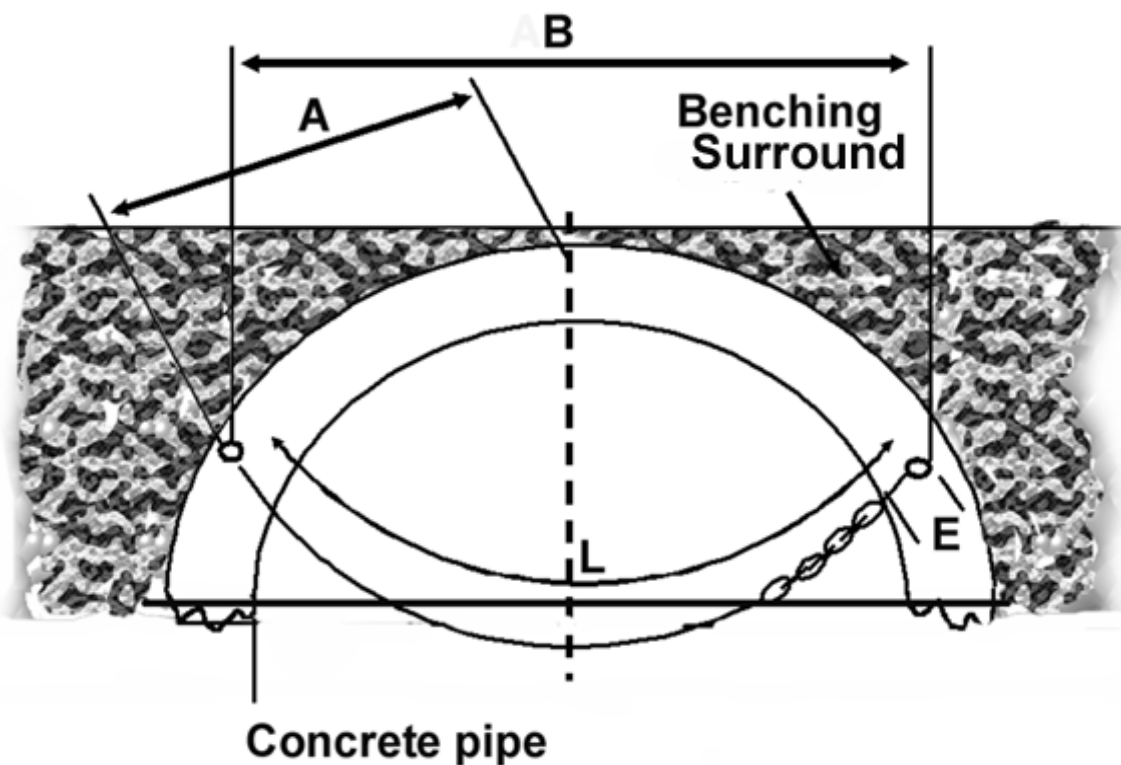


Fig 4

Table 1

Nominal diameter of pipe (mm)	Dimensions (in mm)		Fig 3		
	L		A	B	E
	Chain length	Chain set			
600	940	1100	385	667	150*
675	1020	„	413	715	150*
750	1100	„	445	788	150*
800	1150	1460	488	844	150*
900	1250	„	540	935	150*
1050	1410	„	630	1090	150*
1200	1460	„	725	1255	100
1400	1680	2095	840	1455	100
1500	1780	„	890	1540	100
1600	1920	„	962	1663	100
1800	2065	„	1060	1835	100
2000	2275	2720	1200	2078	100
2100	2375	„	1220	2131	100
2400	2720	„	1420	2460	100

* Holes to be drilled into concrete benching rather than the pipe to achieve this dimension.

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