



TYPE S GRANULAR SURROUND BED

To be used where cover to pipe soffit is greater than 1200mm in vehicular areas and greater than 900mm in non-trafficked areas (ie footpaths, verges, etc)

TYPE Z CONCRETE BED AND SURROUND

To be used where cover to pipe soffit is less than 1200mm in vehicular areas and 900mm in non-trafficked areas (ie footpaths, verges, etc)

GRANULAR BEDDING AND SIDFILL MATERIAL GRADINGS

Pipe nominal size (DN)	Pipe Bedding Requirement (mm)
100	10 nominal single size
over 100 to 150	10 or 14mm nominal single size or 14mm to 5mm graded
over 150-300	10, 14 or 20mm nominal single-size or 14mm to 5mm graded or 20mm to 5mm graded
over 300 to 550	14, 20 or 40mm nominal single-size crushed rock or 14mm to 5mm graded or 20mm to 5mm graded
over 550	14, 20 or 40mm nominal single-size crushed rock or 14mm to 5mm graded or 20mm to 5mm graded

675x675mm ductile iron cover grade 250
D400 cover 150mm deep on class M1 mortar

225mm class 8 engineering brickwork or precast concrete masonry units 225mm thick

25mm thick granolithic benching 1 in 12 crossfall with 25mm radius nosing

GEN3 Concrete (designed to BRE Special Digest 1 Concrete in Aggressive Ground)

75mm class D concrete blinding

150

225

675

Pipe joint with channel to be located inside face of manhole

300 (Max)

150 (Max)

900

Joint to be as close as possible to face of manhole to permit satisfactory joint and movement

TYPICAL MANHOLE DETAIL - TYPE D
(Depth from ground level to soffit of pipe less than 1.0m)

DRAINAGE TO BE CONSTRUCTED IN ACCORDANCE WITH THE WRC PUBLICATION 'SEWERS FOR ADOPTION 6TH EDITION' AND ANY APPROPRIATE ADDENDUMS.
DRAINAGE SHALL ALSO BE CONSTRUCTED TO THE SATISFACTION OF THE ADOPTING AUTHORITY INSPECTORS.