

GROUP D2 – DRAINS AND SEWERS UNDER ROADS AND VERGES

NOTES:
 1. For Notes see Drg No SD/5/5.
 2. Pipes laid below the minimum cover, to have concrete bed and surround (Type Z) see Drg No SD/5/4.

Concrete Pipes to BS 5911

| PIPE DIA mm | TYPE B BED | | TYPE A BED | |
|------------------------|-------------------|------------------|-------------------|------------------|
| | COVER (METRES) | CLASS OF PIPE | COVER (METRES) | CLASS OF PIPE |
| 150 | 0.6–6.0 | L | 0.6–6.0 | L |
| 225 | 0.9–3.7 | L | 0.9–5.6 | L |
| | 3.7–6.0 | M | 5.6–6.0 | M |
| 300 | 0.9–2.1 | L | 0.9–3.9 | L |
| | 2.1–3.0 | M | 3.9–5.0 | M |
| | 3.0–4.0 | H | 5.0–6.0 | H |
| 375 | 0.9–3.6 | M | 0.9–2.9 | M |
| | 3.6–4.8 | H | 2.9–6.0 | H |
| 450 | 0.9–3.3 | M | 0.9–1.7 | L |
| | 3.3–4.7 | H | 1.7–5.4 | M |
| 525 | 0.9–3.4 | M | 0.9–6.0 | M |
| | 3.4–6.0 | H | | |
| 600 | 0.9–3.2 | M | 0.9–6.0 | M |
| | 3.2–5.4 | H | | |
| 675 | 0.9–3.2 | M | 0.9–6.0 | M |
| | 3.2–5.8 | H | | |
| 750 | 0.9–1.2 | H | 0.9–6.0 | M |
| | 1.2–3.0 | M | | |
| | 3.0–5.8 | H | | |
| 825 | 0.9–1.2 | H | 0.9–6.0 | M |
| | 1.2–3.4 | M | | |
| | 3.4–5.6 | H | | |
| 900 | 0.9–1.2 | H | 0.9–6.0 | M |
| | 1.2–2.2 | M | | |
| | 2.2–5.4 | H | | |
| 1050 AND GREATER | 0.9–3.3 | M | 1.2–2.2 | L |
| | 3.0–5.5 | H | 2.2–6.5 | M |
| | | | 6.5–8.0 | H |

Clay Pipes to BS 65:1991 & BS EN295:1991

| PIPE DIA mm | COVER (METRES) | TYPE OF BEDDING | CLASS OF PIPE |
|----------------|-------------------------------|--------------------|------------------|
| 100 | 0.6–6.0 | B | S |
| 150 | 0.6–4.6 4.6–5.2 5.2–6.0 | B | S |
| | | A | S |
| | | OR B | ES |
| | | A | S |
| | | OR B | SS |
| | | | |
| 225 | 0.9–2.4 2.4–4.2 4.2–6.0 | B | S |
| | | A | S |
| | | OR B | ES |
| | | A | ES |
| | | OR B | ES |
| | | | |
| 300 | 0.9–3.2 3.2–3.8 3.8–6.0 | A | S |
| | | OR B | ES |
| | | B | ES |
| | | A | ES |
| | | OR B | ES |
| | | | |
| 375 | 0.9–2.9 2.9–3.5 3.5–6.0 | B | S |
| | | A | S |
| | | OR B | ES |
| | | A | ES |
| | | OR B | ES |
| | | | |
| 450 | 0.9–3.3 3.3–6.0 | A | S |
| | | OR B | ES |
| | | A | ES |

UPVC Pipes to BS 4660, BS 5481 or BS 3506 (excluding Class 0) see Notes 4, 6 & 7

| PIPE DIA mm | COVER (METRES) | TYPE OF BEDDING | CLASS OF PIPE |
|----------------|-------------------------------|--------------------|------------------|
| 110 | 0.9–6.0 | E | BS 4660 |
| | | E | BS 4660 |
| | | E | BS 5481 |
| 250 | 0.9–6.0 | E | BS 5481 |
| 315 | 0.9–6.0 | E | BS 5481 |
| 400 | 0.9–6.0 | E | BS 5481 |
| 450 | 0.9–1.0 1.0–1.2 1.2–6.0 | E | BS 5481 D |
| | | E | C |
| | | E | C |
| 525 | 0.9–1.0 1.0–1.2 1.2–6.0 | E | D |
| | | E | C |
| | | E | B |
| 600 | 0.9–1.0 1.0–1.2 1.2–6.0 | E | D |
| | | E | C |
| | | E | B |



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| <p>DEPARTMENT OF HIGHWAYS TRANSPORTATION AND WASTE MANAGEMENT</p> | TITLE: STANDARD DRAWING | DRAINAGE GROUP D2 | TABLES OF STRENGTHS AND DEPTHS | DRAWING NUMBER SD/5/6^A | DATE SEPTEMBER 1999 | | | |
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