

> 225 & ≤ 350	OD + 0.5
> 350 & ≤ 700	OD + 0.7
> 700 & ≤ 1200	OD + 0.85
> 1200	OD + 1.0

Table-21-4: Minimum Trench Widths

- ii. Where pipes are laid in good quality ground conditions such as those native soils comprising granular, sandy or rocky materials, the pipe bed and surround shall comprise clean dry sand free from silty and foreign materials and particles of larger than 5mm diameter. If required by the Engineer, the contractor shall demonstrate that the sand complies with one of the three grading requirements of Table B.16 in EN 1610, as shown in Table 21-5.

Sieve size (mm)	Percentage by mass passing BS sieve			
	Overall Limits	Additional limits for grading		
		Course	Medium	Fine
10.00	100	–	–	–
5.00	89 – 100	–	–	–
2.36	60 – 100	60 – 100	65 – 100	80 – 100
1.18	30 – 100	30 – 90	45 – 100	70 – 100
0.60	15 – 100	15 – 54	25 – 80	55 – 100
0.30	5 – 70	5 – 40	5 – 48	5 – 70
0.10	0 - 15	–	–	–

Table 21-5: Grading of sand (fine aggregate)

- iii. Should the bed and surround material fail to meet the above requirements it shall be graded on site in order to do so or be replaced with an imported material described below.
- iv. Where pipes are laid in poor quality ground conditions such as those native soils comprising soft or silty materials that cannot be compacted to 85% Standard Proctor Density, the pipe bed and surround shall comprise an imported granular materials complying with one of the grades given in Table B.15 of EN1610, as shown in Tables 21-6 and 21-7. As far as possible bed and surround shall match as nearly as possible the native soil in order to minimize loss of bedding material into the trench walls