

- viii. In the event of very poor ground conditions with a water table above the pipe invert the Engineer may specify that graded granular bed and surround material is wrapped in geotextile.
- ix. Irrespective of the grading the bed and surround shall be compacted to a minimum of 85% standard proctor density.
- a) Pipes shall be laid from downstream to upstream with the socket end at the upstream end of each pipe.
- b) The pipeline shall be within 20mm of the specified line and the invert level shall be within 6mm of the specified value and shall be such that there is no backfall at any point on a gravity pipeline.
- c) The Contractor shall undertake the initial deflection testing of the pipeline sections as they are laid and completed between consecutive manholes or chambers in accordance with section 3.3 of this specification.
- d) When a cut pipe is required, ensure that the cutting is done leaving a smooth cut at right angles to the axis of the pipe.
- e) Ensure the joint is cleaned and lubricated and that the rubber gasket is inserted in the groove of the socket end of the pipe or in the valley between two corrugations, as appropriate.
- f) In the case of pipes having welded joints, dummy welds shall be undertaken with each welding machine every 100 welds. The dummy welds shall be undertaken on a profile similar that of the pipe system being welded and the dummy welds shall be tested in accordance with table 4 of EN13476 – 1.
- g) Ensure that internally all pipes and fittings are sound and clean before laying. When pipe laying is not in progress, ensure that the pipe ends are at all times fitted with watertight plugs or caps. The plugs or caps shall only be removed for the purposes of making a connection of the pipe end or testing the pipeline. The plugs or cap shall be replaced immediately on completion of the test.
- h) Hydrostatic testing of the pipelines shall be undertaken once the pipe bedding has been completed up to the pipe soffit level. Such testing shall be undertaken in accordance with section 3.2 of this specification.