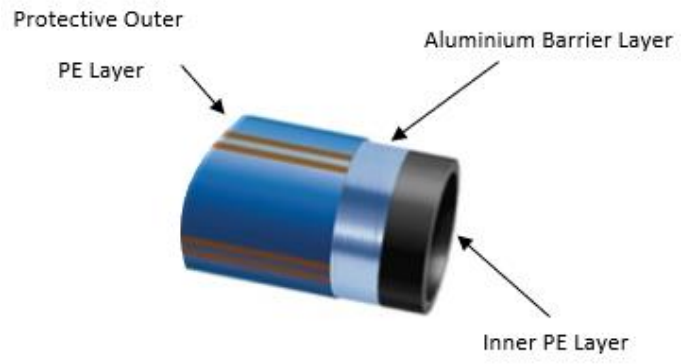
What is Barrier Pipe?

1. Introduction

To ensure we safeguard the quality of the water that is delivered to the taps of our customers it is often a requirement for barrier pipe and fittings to be installed, rather than standard polyethylene pipe. This is a requirement when certain ground contamination, (or risks of contamination) is identified on your site. The only way we can be certain that your site is free from contaminants is to assess a ground investigation report (GIR). This should be submitted during the initial application, before the design is completed.

2. What is Barrier Pipe?

Barrier pipe is a reinforced pipe designed to carry water through contaminated land. It protects water supplies against certain types of contaminants in the soil, that can permeate standard Polyethylene pipe.



There are various types of barrier pipe and associated fittings available on the market. All fittings/ apparatus should also be barrier type. **If you need any further advice, please contact us.**

3. When should Barrier Pipe and associated fittings be used?

Barrier Pipe and associated fittings must be used if the GIR provided showed signs of any of the following:

- Banded Hydrocarbons (aliphatic and aromatic hydrocarbons)
- Volatile organic compounds (VOCs) including analysis of naphthalene
- BTEX (Benzene, toluene, ethyl benzene and xylene) plus MTBE (Methyl-tertiary butyl ether)
- Semi-Volatile Organic Compounds (SVOCs)

**If a GIR is not provided and your development shows signs of potential contamination, we may have to default to barrier pipe. If you have not previously submitted information to your ground conditions, please contact us and we can discuss the requirements of your site.*

4. Important things to remember.

- "Type A" Barrier Pipe system should be used
- Barrier pipe fittings must also be used

If the ground has been remediated, by replacing the existing surfaces with clean soil please let us know. You will need to provide a remediation certificate and full chemical analysis to confirm this.

IMPORTANT: Always check the pipe material specified in your design before any pipework is installed on site. We cannot accept any responsibility for the costs associated with replacing incorrect pipework.