

Fibreglass Carrier Pipe



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Fibreglass 'Carrier Pipes' can be fitted around inlet and outlet piping from pump stations and valve chambers. They provide room for the pipe to move horizontally and vertically during ground consolidation, or in an extreme event like an earthquake.

Carrier Pipe Design

The 'Carrier Pipe' is supplied in short lengths in two halves that fit together at site. Soft foam supports are used to position the internal pipe. A 'Carrier Pipe Starter' is fitted to the pump station or valve chamber, and the 'Carrier Pipe' is fitted to this. The 'Starters' are usually factory fitted, or can be site fitted later.

Pump Station to Valve Chamber

Pump stations and valve chambers are often located a short distance apart. If there is ground consolidation or movement of the vessels, the connecting pipes can become stressed and fracture at the ends. This occurred at sites during the Christchurch earthquakes of 2010 and 2011. A possible solution is to install the connecting pipes in 'Carrier Pipes' that give room for the connecting pipes to move unrestricted by the backfill.

Outlets and Inlet Pipes

A short length (e.g. 1.5 metres) of 'Carrier Pipe' can be installed on the outlet of the pump station, and both the inlet and outlet of the valve chamber. This reduces the chance of the pipe fracturing during movement.

Protection During Excavation

HDPE pipe can easily be damaged by excavation equipment. 'Carrier Pipe' protects the pipe during excavation for maintenance.

Supply Details

Fibreglass 'Carrier Pipes' are available from ARMATEC, and can be site fitted by contractors.



HDPE pipe before 'Carrier Pipes' installed.



'Carrier Pipe Starter' fitted to pump station end.



First 'Carrier Pipe' installed.



Both 'Carrier Pipes' installed. HDPE pipe is now protected. It has room to move reducing chances of fracture due to ground movement.