

PROJECT CASE STUDY



IMPROVED RETAINING WALL DRAINAGE FOR WATERFALL STATION

WHAT WE DELIVERED

UNPLASTICISED POLYVINYL
CHLORIDE (UPVC) PRESSURE
PIPE DRAINAGE



LENGTH
3.3 m - 7.8 m



PRESSURE
670 RMS

PROJECT DESCRIPTION

To contribute to an improved rail network, Waterfall Station is being upgraded by Transport for NSW to accommodate new state-of-the-art intercity trains - Mariyung Fleet. This project includes track work within the rail corridor and a new fleet stabling yard.

The work at Waterfall Station will increase the capacity for train services operating along the line, allow longer trains to stop at Waterfall Station and improve the way freight and passenger services travel through the rail network.

One of the requirements for the rail corridor upgrade includes the installation of new 600 metre long retaining wall with drainage along the boundary to widen the rail corridor and provide more tracks. Drainage is required to relieve groundwater pressure building up within the retaining wall - without suitable drainage, the retaining wall would fail.

OUR SOLUTION

Plascorp were engaged to manufacture and supply the drainage for this project. Plascorp makes PVC pipe in Australia and has in-house slotting and threading capabilities, enabling Plascorp to customise timely and cost-effective solutions. Unplasticised Polyvinyl Chloride (uPVC) Pressure Pipe Drainage that meets Roads and Maritime Service (RMS) ANZ specifications were slotted and supplied for this project. The inner piping was fitted with Geofabrics Bidim Green Non-Woven Geotextile sleeves to enhance filtration qualities. Basic drawings of each length drain were signed off by the contractor prior to production.

For this project, Plascorp produced the outer and inner piping separately so that the outer piping could be installed and sealed first, followed by inner piping at a later date. Because mass piping is heavy and generally moved frequently on-site, the maximum number of pipes delivered in one package is 18 - this makes it easier for transport on-site and minimise opportunity for breakages. Plascorp has the capability to provide quick fix solution options for any pipe or site condition variations that occur during installing and handling.

This project is expected to finish in April 2022, by project completion Plascorp will have supplied a total of 670 RMS Pressure Pipe uPVC Drains with lengths varying between 3.3 meters to 7.8 meters.

UNPLASTICISED POLYVINYL CHLORIDE (UPVC) PRESSURE PIPE DRAINAGE



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