

CASE STUDY – CIPP Lining under the A87, Isle of Skye

On the beautiful Isle of Skye, iLine Technologies were recommended to BEAR Scotland by various clients, to look at rehabilitation options for a severely corroded 900mm diameter ARMCO pipe.

Having successfully rehabilitated lots of these culverts throughout the UK, iLine had the expertise and installation skills to meet BEAR Scotland high expectations on quality & delivery of this project.

With over 20-years' experience in the installation and design of UV GRP CIPP liner using the same teams, iLine technologies have an unrivalled knowledge and experience in the renovation of large diameter culverts.

A 10m length of 900mm diameter ARMCO pipe under the A87 North of Sligachan was severely corroded and erosion of the concrete surround had made the culvert vulnerable to possible collapse.

A fully structural UV GRP cured in place liner capable of supporting all the loads imposed by LM2 of the Eurocode design specification was required. A liner thickness of 14mm was calculated by iLine's in-house design team and the bespoke liner, with a 120-year design life was ordered from our partners Reline Europe in Germany with a 3-week delivery lead-in period.

Installation of the liner was completed in 2 days during 2018, with only a single-lane closure during the work day was required. The liner installation was installed at a cure rate of approximately 1m/min and resulted in a fully structural liner with an increased flow capacity.

Work was successfully completed to satisfaction of the client and with no disruption to the residents of the Isle of Skye.



Before Lining



After Lining