

CULVERT SEVENANS



Location: Sevenans, France

Date: 2020

Contractor: Freyssinet

Solutions and technologies: Shotcrete

Introduction

This pipe, located under the toll motorway A36 is called PI17 at Sevenans 90. This site was carried out within the framework of works contract managed by APRR.

- Diameter: 5.75 m
- Height: 4.99 m
- Length: 21.91 m
- Total Area: 287 m²



Application

The repair/strengthening or regeneration/reinforcement solution consists of creating/casting, from the inside and in contact with the existing metal culvert, a resistant structure capable of carrying/supporting on its own the permanent loads (weight of the backfill) as well as the traffic overloads applied on the culvert.

Using the innovative process developed by the Ductal® and Freyssinet teams, a thin layer of Ductal® Shotcrete (7.5cm in average thickness) was applied/sprayed enough to strengthen the existing structure without requiring extensive preparatory works.

Challenge

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