

Victaulic Expansion Joint Installation at Waipa Bridge Crossing

Infrastructure Engineering solution



Photo courtesy of HVAC & Infrastructure, Victaulic (Northern End- Side Elevation)

Project Overview:

In October 2025, Hydroflow Civil has worked together with Victaulic and GT Civil to deliver a high-quality installation of Victaulic style 155 Expansion joint deal at Waipa Bridge Crossing in Te Awamutu. The project was designed to withstand movement, temperature fluctuations and structural shift in bridge-mounted pipelines.

To ensure and confirm its system integrity, Victaulic performed an on-site inspection to verify the manufacturer specifications, quality of installations, alignment, and its performance under operational conditions.

Project Background:

The Waipa Bridge Crossing requires a unique and robust solution that can hold against engineering demands while maintaining its structural integrity and long service life. Victaulic Style 155 Expansion Joint was chosen due to its built-in movement capabilities, reliability on pressure performance, fast installations compared to welded solutions and long-term reliability in civil and industrial environments. Hydrostatic pressure testing was conducted to ensure that the entire assembly was completely leak-free.

Key Findings and Outcomes:

- The project was formally certified by Victaulic that it met all manufacturers requirements, and the expansion assemblies were installed precisely according to Victaulic's specifications
- No corrective actions have been taken, indicating a strong quality workmanship
- GT Civil delivered a high-quality standard of technical excellence that reflected a seamless installation and clean alignment finish that ensures reliability for Waipa Bridge Crossing water infrastructure

Project Impact:

The project highlights the early collaboration, strict adherence to installation standards and technical expertise between the manufacturer, distributor, consultants and contractors that delivered a world class bridge and pipeline applications.

- Hydroflow Civil- Distributor, support and technical liaison
- GT Civil- Installing Contractor
- Babbage Consultants- Project Consultants
- Victaulic- Manufacturer & Technical Verification

Photos:

Photo Reference

Image # 1

Image # 2

Image # 3

Description

Southern End - Complete Pipeline Installation

Southern End - Side Elevation

Northern End - Complete Pipeline Installation



Image #1



Image #2



Image #3