

Arch Culvert for Logging Operations

Temporary Stream Crossing



Project: Arch Culvert for Logging Operations

Owner: Forest Engineering Research Institute of Canada

Application: Temporary Stream Crossing using 42" Weholite

Contractor: Forest Engineering Research Institute of Canada

Protecting water and stream environments is important to the forest industry. To do so, safe, reliable and affordable water crossings are required. These crossings, or arches as they are called, allow crossed streams to remain undisturbed.

Forest Engineering Research Institute of Canada (FERIC) and Infra Pipe began testing Weholite in the summer of 1999. Weholite was chosen for its durability and size range up to 120". Two 42" diameter x 2 meters long pipe halves were repeatedly run over with heavy forest equipment in excess of 25,000 pounds. While there was some deflection in the Weholite, it always returned to its original position.

FERIC is currently testing larger sizes to determine the maximum span that can be practical. For these tests 60" and 72" pipes are being used.

The results from these tests are encouraging and the use of Weholite for arch culverts looks very promising for the forest industry.

