

Concrete Compression Testing

S-Type

Industry: Infrastructure

Summary

Customer Challenge

Testing the strength of concrete is essential for assessing the structural integrity and performance of concrete in various construction and infrastructure applications. A compression test is needed to ensure the concrete meets the specific strength requirements for structural use.

Interface Solution

Interface suggests using the 1101 Compression-Only Ultra Precision LowProfile™ Load Cell in the compression test frame. A sample of concrete will be placed in the test frame, and the concrete will be compressed. The measurements from the compression test are recorded using the INF-USB3 Universal Serial Bus Single Channel PC Interface Module and logged when attached to the customer's PC laptop or computer.

Results

Interface's 1101 Compression-Only Ultra Precision LowProfile™ Load Cell and paired instrumentation successfully measured and recorded the forces during the concrete compression test.

Materials

- 1101 Compression-Only Ultra Precision LowProfile™ Load Cell
- INF-USB3 Universal Serial Bus Single Channel PC Interface Module with supplied software
- Customer PC or Laptop

How It Works

1. The 1101 Compression-Only Ultra Precision LowProfile™ Load Cell is installed into the compression test frame
2. A compression test is done onto a concrete sample. The 1101 Compression-Only Ultra Precision LowProfile™ Load Cell measures the forces of compression.
3. These measurements are recorded using the INF-USB3 Universal Serial Bus Single Channel PC Interface Module, which can be viewed and logged when attached to the customer's PC laptop or computer.

