

**Advanced Piping Products** 

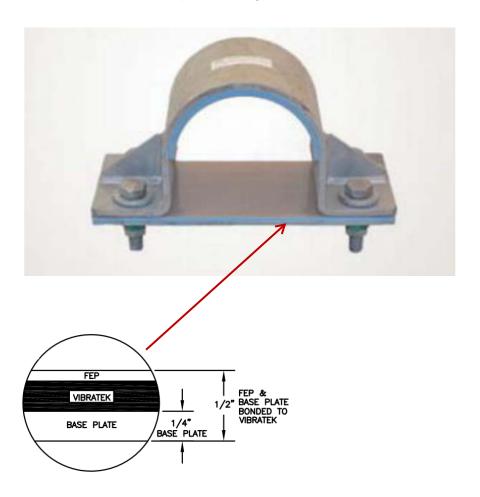
## VibraTek Hold Down Clamp

## **Compression Test – Mechanical Property**

Compression testing shows the VibraTek Hold Down Clamp's capability of handling large compressive loads without experiencing failure.

**Product Tested:** The VibraTek Hold Down Clamp is a sandwich-structured composite. The core of the sandwich is a proprietary VibraTek liner and it is sandwiched between fiber-backed FEP bonded on top and a ¼ inch carbon steel base plate bonded on the bottom.

Below is the VibraTek Hold Down Clamp and a diagram of the sandwich structure:



**Test Set Up:** A compression load was applied to a 14-inch carbon steel pipe sitting on a 6" X 8" section of the sandwich composite. The purpose was to determine the load it would take for the pipe to break through the FEP and VibraTek liner and make contact with the carbon steel base



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plate. A compression machine was used to apply the load and a holiday detector was used to determine when the carbon steel pipe made contact with the carbon steel base plate. A contact wire was connected between the pipe and base plate and an alarm would sound off if contact was made.

**Test Result:** A compressive load of 20,300 pounds was applied before testing was stopped. At the end of the test, no contact had been made between the base plate and pipe, meaning the pipe had not penetrated the VibraTek and FEP at that load.