

FGD High-Temperature Stack Joint

Application:

A High-Temperature Composite Expansion Joint connecting the Flue Gas Desulfurization (FGD) absorber to the exhaust stack at a power plant.

Flue Gas Desulfurization is an Environmental protection technology used to remove sulfur dioxide from the exhaust of flue gases produced during power generation in fossil fuel power plants.



Problem:

The existing High-Temp Composite Expansion Joint had experienced rips/holes and other wear failures during its life span. It had multiple patches and currently was failing in the corners allowing exhaust gas to escape. The material of the joint was tight with no ability to stretch during operation.



Solution:

After an onsite plant visit with one of our Partner Distributors to evaluate the application and compile system information. Holz engineers determined the overall length of the Composite Expansion Joint was short for the application and system movements. We specified an HRPL7 (PTFE/Fluoropolymer) High-Temperature Composite Expansion Joint rated for 600° manufactured to the correct active-length. We also provided a 1/8" X 3/8" PTFE gasket to install between the frame and belt to ensure proper sealing and system efficiency.
