Application Data Sheet

Expansion Joint Designed and Molded to Prevent Hurricane Damage

Application:
A gas turbine air inlet in South Florida.

Problem:
Gas turbines require a lot of intake air to function properly. As the ambient air is drawn into a Filter House, the air passes through a series of cleaning filters. Next, this large volume of air passes through a Silencer section to quiet the noise before entering into the Turbine Inlet. The expansion joints are designed to absorb any thermal and mechanical movements associated with large pieces of equipment, but also absorb large amounts of lateral (shear) movement in case of high winds, earthquakes, or hurricanes.

Solution:
Holz Rubber Company recently supplied expansion joints for two new gas turbine projects in South Florida. The expansion joints required specialty molded corners to accommodate the large lateral movements that may occur in a hurricane situation.