

ENERGY FORCE CALCULATION

*“The proof is in the pudding”
Superflex designs system to absorb hurricane power force within 5 sec !*

While Superflex designs mooring systems on floating devices, we consider four-dimensional force, including shock force time factor. Under many circumstances, the cumulated spiral force caused by hurricane turbulence is composed of more than one vector force, and varies hugely at different moment. Therefore, the calculation of the energy force is extremely complex. Similar to the calculation of nuclear energy (JOULES), the calculation is to accumulate continuously the energy force during several period of time and use mixed space vector in space for surge(JOULES), instead of simple horizontal or vertical vector force (Newton).

To analyze the cumulated energy force (JOULES), many offshore engi-

neers choose Moses, Aqua, Hydrostar, Yoshimi Goda, etc. to estimate the power of the interactive reaction during the 5 to 10 seconds of the highest wave period of each hurricane.

Superflex designs the mooring system for floating marina, breakwater pontoon, offshore barge, or platform based on energy force calculation and provides 0.1 sec-0.01 sec auto revival taut elastic analysis laboratory test report. This report will make it easier for marine engineers to analyze the strength of buoyancy, and choose anchoring systems suitable for their own needs. To illustrate the absorbed energy force by Superflex, the test reports for elongation of 11.69%, 34.56% and 52.12% are shown here.

Model: KS402 SUPERFLEX 40 tons Shock Absorb

