

Cuming Corporation News

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Allow us to show you our expanded capabilities as part of Bayou Flow Technologies, providing integrated flow assurance through a single point of contact.



MAJOR OIL COMPANY CHOOSES C-THERM TO INSULATE SUBSEA EQUIPMENT

Cuming Corporation is insulating critical equipment with *C-THERM* FPP syntactic foam insulation for two large deepwater oil fields. In both instances, *C-THERM* was selected as a result of a rigorous qualification program. For Shell's *Bonga* Field off the coast of West Africa, Cuming is insulating 16 trees built by ABB Vetco that will be used in 4,000 feet of water. For Shell's *Nakika* Field in the Gulf of Mexico, Cuming is insulating sleds for Kellogg Brown & Root for use in 7,000 feet of water. According to

Elmer Hershey, manager of insulation products, "Projects of this size reflect the industry's growing recognition of the effectiveness of *C-THERM* insulation in improving flow assurance throughout sub-sea equipment systems." ◀

See story below for details.



Our new bend testing equipment measures the added durability of our "Ruggedized" modules to withstand the worst deepwater conditions.

C-FLOAT RISER BUOYANCY CONTRIBUTES TO DEEPWATER SUCCESSES

Transocean Sedco Forex's *Deepwater Discovery* set a recent drilling record of 9,325 feet in Total Fina ELF's *Genny 1-Astrid Marin* well off West Africa. Cuming Corporation outfitted this new drill ship with more than 1,000 modules.

Cuming is also constructing 728 "Ruggedized" modules for Noble Drilling Company's *Leo Segerius*. These replacement modules will better prepare the drill ship to withstand extreme ocean conditions off the coast of Brazil.

Ray Wong, manager of flotation products, commented, "Our high performance *C-FLOAT* modules enable customers to work with confidence in ocean conditions and depths beyond any they've been capable of before." ◀

C-FLOAT "RUGGEDIZED" MODULES: SUPER STRONG, SUPER TOUGH!



Bend testing has shown "Ruggedized" modules capable of nearly five times the deflection of standard modules.

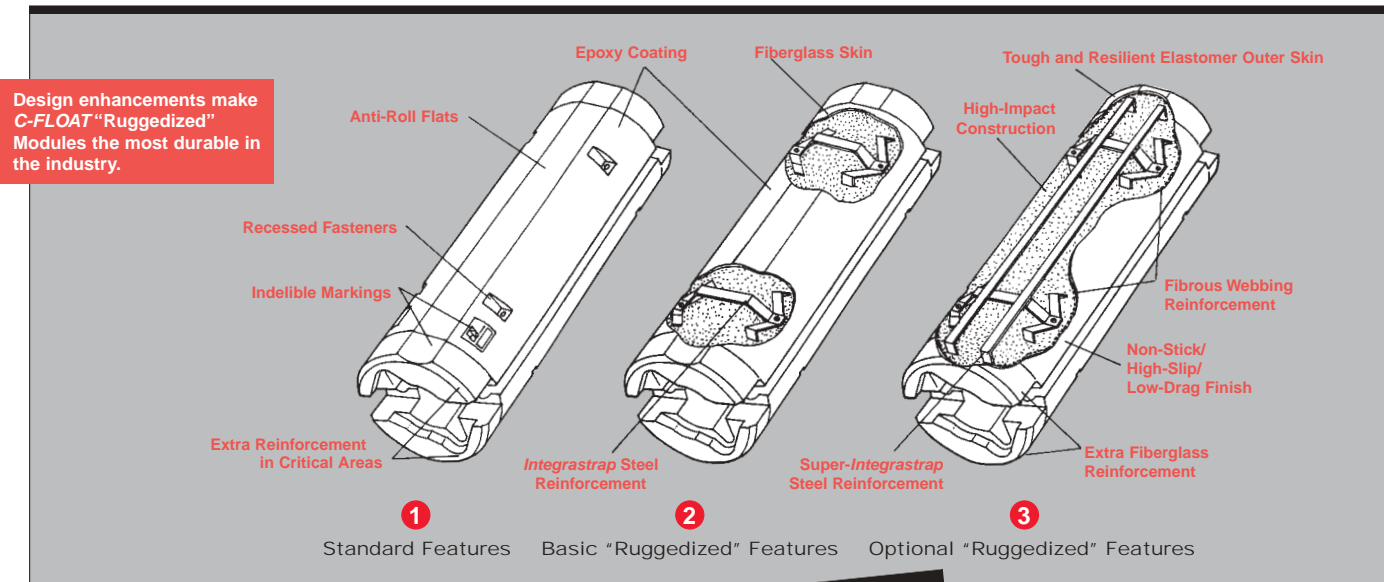
Ruggedness starts with the fundamental design of *C-FLOAT* modules. Cuming Corporation engineers are seasoned oilpatch professionals, with many years of offshore experience. They review every module design for safety and durability. Next, the syntactic foam is formulated for maximum strength and toughness consistent with density and depth rating. *C-FLOAT* modules are the only buoyancy system to offer improved ruggedness without imposing severe density and cost penalties. Finally, a patented* multilayer outer covering is added to protect the core, reduce breakage, and prevent loose sections from falling off and possibly causing injury.

The various special features available in *C-FLOAT* "Ruggedized" modules are depicted in Figure 1. The effectiveness of these features has been verified by full-size testing of actual riser buoyancy modules at Cuming Corporation's Avon factory. The apparatus used to perform this testing is shown above. The "Crusher," as it is

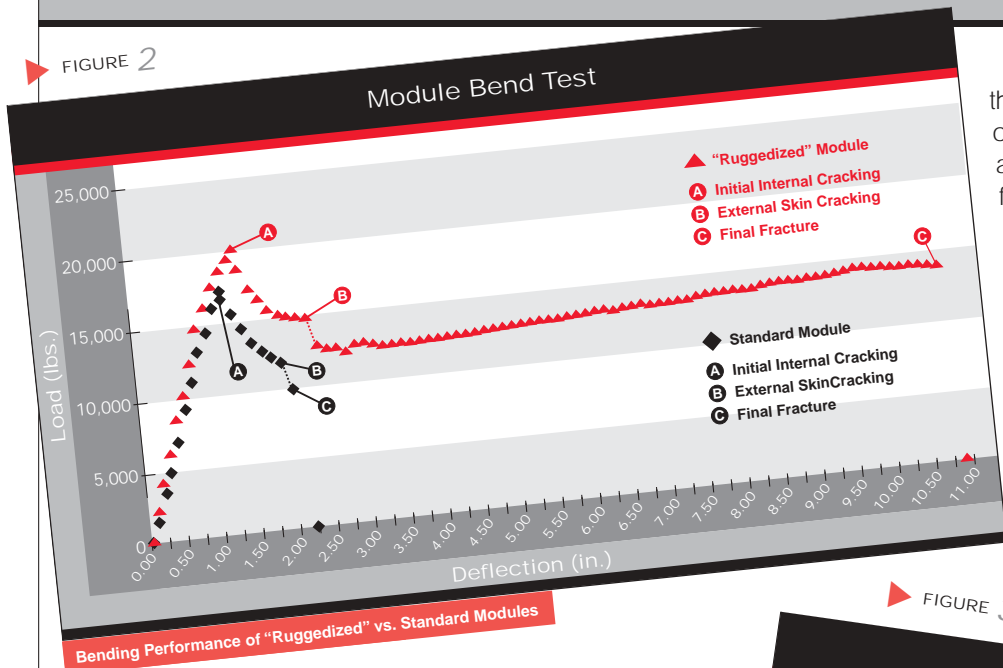
*U. S. Patent Pending

▶ CONTINUED ON BACK

▶ FIGURE 1

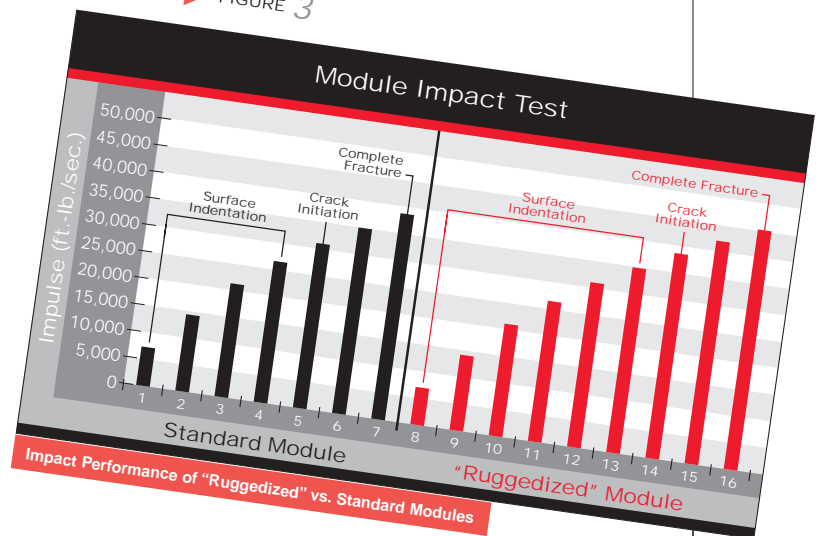


▶ FIGURE 2



the way, here, too, with our service centers in strategic locations around the world. Factory-certified facilities in Avon, Massachusetts, New Iberia, Louisiana, and Macae, Brazil, offer a full range of repair and rework capabilities, supported by trained engineers. No other supplier of syntactic foam can match our quality and service. If your offshore operations need the very best in rugged, reliable buoyancy, contact any of the sales offices listed below.

▶ FIGURE 3



called, can test modules in two ways: (1) bending, with loads up to 100,000 lbs; and (2) impact, with energies in excess of 50,000 ft-lbs/sec. Figures 2 and 3 illustrate the improvements provided by "Ruggedized" construction: not only do the new modules bend farther before breaking, but they withstand much greater loads. Similarly, they can absorb nearly twice as much impact without experiencing serious damage. These numbers are conclusive evidence that C-FLOAT modules will survive even the toughest offshore conditions.

Even the most rugged products may occasionally need repair or refurbishment, and Cuming Corporation leads

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