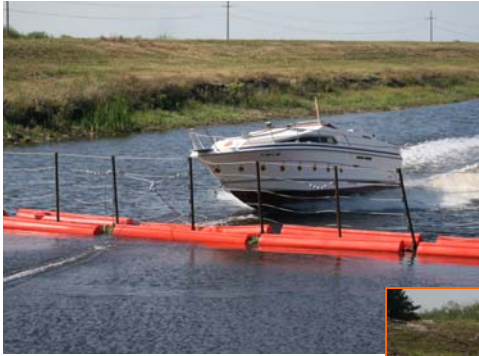


# TUFFCAT-10™

## Port Security Barriers



A boat traveling 60 mph moves 88 feet every second. How fast a barrier stops that boat will spell the difference between a successful attack and a failed one.

**TUFFCAT-10** is a field proven, crash-tested and U.S. Bureau of Reclamation certified CLASS-1 Vessel Exclusion/Port Security floating barrier.

Physical Crash Testing in 2003 and again in 2006 demonstrated the capture strength of this system. Designed to prevent attacks by 99.4% of boats according to statistic by the U.S. Coast Guard and Navy.

Testing achieved the following results:

- IMPACT Speed: Over 60 mph (98 km/h)
- IMPACT Force: Over 1,050,000 foot-pounds
- Stopping time: Less than 0.5 seconds
- Dual-Attack testing to simulate direct attacks on barrier by two boats over 26 feet in quick succession.
- DAMAGE Results: Cable slices into hull in multiple locations. A 26" boat traveling over 60 mph saw the cable slice 15 feet through the hull resulting in sinking within 5 minutes. This barrier has gained the nickname "**The Cheese-Grater**" because of the severe damage it inflicts on attacking vessels.

The **TUFFCAT** series of barriers are designed for critical infrastructure where absolute protection against waterborne attack is required.

### Features (At-A-Glance)

1. Class-1 Vessel Exclusion Barrier
2. Impact Tested and Certified
3. Highly stable catamaran design supports topside cable or netting capture system.
4. Rated to capture vessel within 0.5 seconds.
5. Unsinkable foam filled pontoons provides exceptional stability and buoyancy.
6. Available in galvanized or stainless.
7. Highly visible international orange.
8. Topside screening/cablings can extend up to 8' above waterline.
9. Optional items include marine lanterns, razor wire, boat gates and signage.
10. Engineering available for anchoring.
11. Large boom lines can be towed without requiring heavy equipment.
12. High strength connections.
13. Field installations exposed to five (5) hurricanes without damage.

**Certified in accordance with the U.S. Bureau of Reclamation Directives and Standards, SLE 03-01, Boat Barrier Certification and Procurement.**

[www.tuffboom.com](http://www.tuffboom.com)

**GSA** Contract Holder

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