



Lightweight. Adaptable. Durable.

Flight Deck Edge Safety Nets

High Performance Cordage-Deck Edge Nets (HPC-DEN)

QinetiQ North America's high performance cordage deck edge safety nets (HPC-DEN) provide safety and fall protection at sea and on land. The lightweight and durable nets are typically installed around the perimeter of helicopter landing pads on maritime vessels, offshore installations, and building rooftops.

High-Performance Design

HPC-DEN cord construction consists of a high strength fiber inner core, a protective outer sleeve for ultraviolet and abrasion resistance plus a coating for added environmental protection. The cord is machine woven into bulk netting, can be fabricated into a square or diamond pattern and cut to a variety of shapes and sizes.

HPC-DEN cordage is light enough to float on water, making it ideal for marine rope and cordage applications. Because the fibers are hydrophobic, they will not absorb moisture or deteriorate in water.

Flight deck edge safety nets are approved for use by US Navy Drawing Number 8436625 "Safety Nets, Deck Edge, Aluminum Frame, Synthetic Net" and are currently being installed on maritime vessels including the US Navy Littoral Combat Ship (LCS) fleet.

Features

- Lightweight—floats on water
- Durable: made with high performance materials
- Adaptable design
- Improved sightlines—optional patterns
- Increased service life compared to nylon netting and improved protection against UV and weather
- Six year durability (estimate based on field test aboard US Navy DDG vessel)

Benefits

- Provides protection and safety to crew

Light enough to float. Tough enough to protect.

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Nylon Net



HPC Deck-Edge Net

| Description | HPC-DEN | Nylon DEN |
|---|----------------------------|--|
| Service Life ^a | 6 years | 1.5 - 2 years |
| Installations (per 6 yr cycle) | 1 | 3-4 |
| Static Weight Test Naval Sea Systems Command STD DWG 803-5184097 Rev "B" General Note #23 (1000 lbs for 10 min) | Every 3 years ^b | Every year |
| Damage from maritime environmental exposure (UV & moisture) | Low | High |
| Frame uplift & drag during green sea submersion (violates Naval Air Systems Command height restrictions and causes costly frame damage) | Very low | Moderate |
| Abrasion (netting damage) | Low | Moderate-High (requires chaffing strip) |
| Net shrinkage (impacts sag and tautness) | Low | High |

a Service life based on in-service shipboard testing and post in-service testing (Static Weight Test) – six years. Prototype nets were outfitted on USS Howard (DDG 83) and successfully field tested for six years.

b Initially every two years (pending technical warrant approval), with a projected goal of every three years to coincide with CRES wire rope net testing.