

# Safety Nets

## Poly Panel Nets Give Long Safe Economical Service

Why Polypropylene?

Years ago, polypropylene was a little-known name in ropes. Today it has virtually "taken over" in many areas.

On the waterfront from steamship hawsers and deck ropes to tug and barge tow lines the swing has been from manila and nylon to polypropylene.

- Approved Safety Net Inspections

With the oil companies in drilling and maintenance operations from Alaska to the Caribbean and worldwide, polypropylene is the rope most used.

- Lease for Purchase

With the power and light companies' installation and maintenance work uses polypropylene. Having excellent insulation properties, it is used in power line stringing and related uses.

- Prompt Delivery

There are good reasons for this swing:

- Economical

The abrasion resistance of polypropylene is very good, its elasticity is moderate and the recovery excellent.

- Long Useful Life
- Shock Absorbing

Resistance to sunlight and weather deterioration is a strong quality. Polypropylene 3/8" black rope exposed under Florida sunshine test for 7 months lost 1% of its tensile strength.

Under a Fade-0-Meter test the loss was 2% in 7 months.

- Lightweight

Polypropylene absorbs no water and is completely resistant to rot and mildew.

- Made to order or standard sizes in stock

## **Approved Standard Polypropylene Safety Nets**

Dependability and long useful life. These are the qualities that have been combined by Canadian Automotive Ltd. to produce Safety Nets. For more than twenty years these safety nets have been produced with a proven record of safe, economical service. Poly Panel Safety Nets feature unexcelled life expectancy in both permanent installations and intermittent use. When permanently hung and exposed to severe weather, Poly Panel nets have given six to eight years of continuous service. When employed intermittently on heavy construction and tested before each new job, Poly Panel nets that were produced ten and twelve years ago are still in use today.

Poly Panel Safety Nets made to the following specifications fully meet all safety requirements of Federal and State agencies including OSHA and American National Standards.

Mesh Rope 5/16" Dia. Black Polypropylene Rope weighing not less than 1.90 lbs. per 100 feet and with minimum breaking strength of 2000 lbs.

Edge Rope 5/8" Dia. Black Polypropylene Rope with minimum breaking strength of 5800 lbs.  
Mesh 6" x 6" measured from center to center of mesh rope.

### **Polly Panel Net Construction**

Diagonal mesh pattern with mesh members meeting the edge ropes at 45 angles. The safety record of Poly Panel Safety Nets is just as impressive. Falls into Poly Panel nets have occurred on scores of occasions - falls up to 75 feet. The record speaks for itself; Poly Panel Safety Nets have assured a safe landing on all occasions.

All mesh crossings and attachment of edge rope to mesh positively secured with patented fiberglass and plastic bindings which prevent movement and eliminate chafing and frictional wear. The full strength of the rope is preserved since there are no weakening knots or disturbance of the "lay" of the rope.

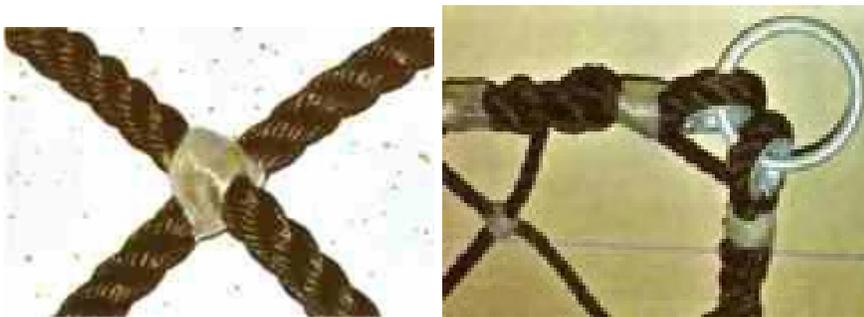
Stainless Steel double thimbles connect panels of mesh forming a net. This patented construction provides additional flexibility and shock absorbing quality. Weight of these nets is approximately one fifth of a pound per square foot.

### **Tested and Approved Test Specifications**

Poly Panel Safety Nets are made to specifications that have been thoroughly tested and approved for personnel safety net use by Federal and State agencies. including the Army Corps of Engineers, the U.S. Bureau of Reclamation, OSHA, and American National Standards

### **Testing Procedure**

Testing of prototype nets under carefully prescribed conditions is a requirement for safety net qualification. Testing consists of dropping a 350-pound test weight of not more than 4 cubic feet from a distance of 50 feet into a net 17 by 24 feet in size, this test produces a force of 17,500-foot pounds. Poly Panel Safety Nets have successfully withstood up to 31,500-foot pounds under the conditions prescribed above and as much as 50,000-foot pounds repeatedly under similar conditions with larger nets. It is this extra reserve of strength that results in the safety and extended life span that are the hallmark of Poly Panel Safety Nets.



### **How Poly Panel Nets Are Made**

Poly Panel Net construction combines great flexibility and elasticity with maintenance of the maximum strength of the rope used.

Lashings of "Fiberglass" reinforced polyester resin secure all "mesh" ropes in mesh position. The edge or "ridge" ropes are similarly secured to the mesh. Using this "tie" there is no distortion or displacement of the "lay" of the rope, its full strength is unimpaired.

Penetration of the crevices of the rope "lay" by the plastic at the "tie point" creates a firm positive attachment, with no slip or resultant friction and wear. "Fatigue is not a factor in these materials which will long outlive the rope itself.



"Panels" of mesh are made in varying dimensions to fit desired net measurements. In small nets a single panel may be used, but in larger standard size nets a succession of panels are secured together, using "double thimbles" of stainless steel over which the mesh rope can slide, "spreading" stresses of shock and adding to flexibility.

The above photo shows one of the tests which was performed on the net test facility. This test demonstration was attended by more than forty qualified representatives of industry, construction, government, and safety associations in North America. All the nets passed the tests.

Built in accordance with the requirements of the American National Standards Institute for safety net testing, this frame is available for use on request.

A VHS video, some of which was taken during the test, and which was produced by the Construction Safety Association of Ontario, entitled The Net Result is Survival is also available for your viewing. Please send your request to.

### **Saving Money with Safety Nets**

Safety Nets saved time and money on this multi-story job replacing "Boarding Over" for a fraction of the cost and with greater safety. This is a 12-story building all structural steel will be quickly placed by a mobile crane operating at ground level The decking, however, will go in more slowly, and could delay steel erection. OSHA regulations call for worker-protection against, falls within two stories of the working level The Contractor has three choices. "Board-over", "tic-off" or use safety nets. If he is smart, he'll provide greater safety for his workers - and save money doing it -- by using safety net.

