



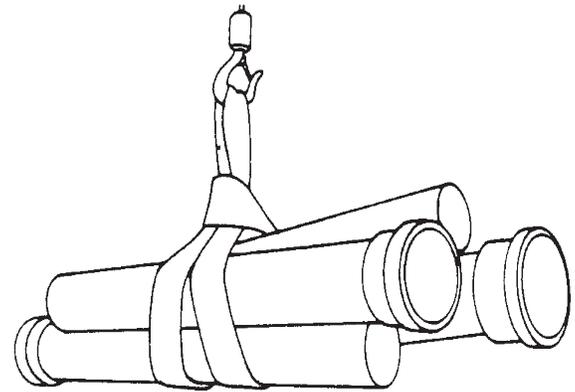
HOISTING - SYNTHETIC WEB SLINGS BEST PRACTICES

Synthetic web slings are available in two materials – nylon and polyester (Dacron). Nylon is resistant to many alkalis, whereas polyester is resistant to many acids. Consult the manufacturer before using web slings in a chemical environment. Nylon slings are more common, but polyester slings are often recommended where headroom is limited since they stretch only half as much as nylon slings.

Synthetic web slings offer several advantages for rigging purposes. – Their relative softness and width create much less tendency to mar or scratch finely machined, highly polished, or painted surfaces and fewer tendencies to crush fragile objects than fiber rope, wire rope, or chain slings. Because of their flexibility, they tend to mold themselves to the shape of the load.

Advantages of Web Slings

1. They do not rust and thus will not stain ornamental precast concrete or stone.
2. They are non-sparking and can be used safely in explosive atmospheres.
3. They minimize twisting and spinning during lifting.
4. Their lightweight permits ease of rigging, their softness precludes hand cuts, and the danger of harm from a free-swinging sling is minimal.
5. They are elastic and stretch under load more than either wire rope or chain and can thus absorb heavy shocks and cushion loads. In cases where sling stretching must be minimized, a sling of larger load capacity or a polyester sling should be used.
6. Synthetic web slings are available in several configurations that are useful in construction.



Web slings mold to the contours of the load.

- **Endless or Grommet Slings** - continuous piece. They can be used as vertical hitches, bridle hitches, choker arrangements, or basket hitches. Because load contact points can be shifted with every lift, wear is evenly distributed, and sling life is extended.
- **Standard Eye and Eye** - each end and eye openings in the same plane as the sling body. The eyes may be either full web width or tapered by being folded and sewn narrower than the webbing width.
- **Twisted Eye** - an eye-and-eye with twisted terminations at both ends. The eye openings are at 90° to the plane of the sling body. This configuration is available with either full-width or tapered eyes.