

## STANDARD WEB SLING TYPES

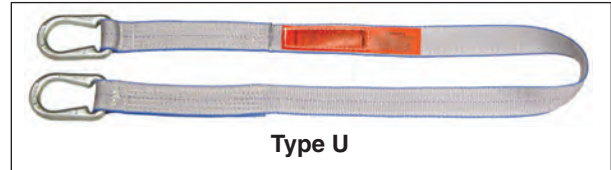
### Hardware Slings

*Unilink* and *Web-Trap* hardware can help to extend sling life by protecting the webbing from abrasion on rough crane hooks. Hardware can often be reused, lowering sling replacement costs.

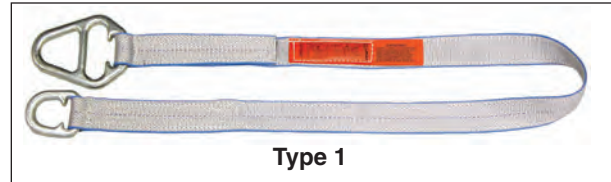
**Type U (UU)** - Has the preferred and economical *Unilink* fitting with *Web-Trap* on each end for use in a vertical, choker or basket hitch. *Unilinks* allow choking from either end to save time and vary wear points.

**Type 1 (TC)** - Has a *Web-Trap* triangle on one end and choker on the other end. Typical use is in a choker hitch. Can also be used in vertical and basket hitches.

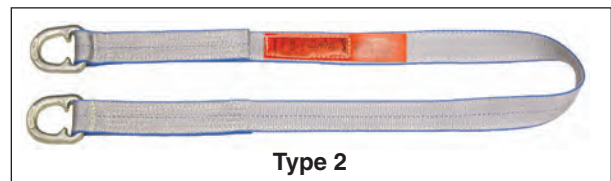
**Type 2 (TT)** - Has a *Web-Trap* triangle on each end. Normally used in a basket hitch, but can also be used in a vertical hitch. Cannot be used as a choker.



Type U



Type 1

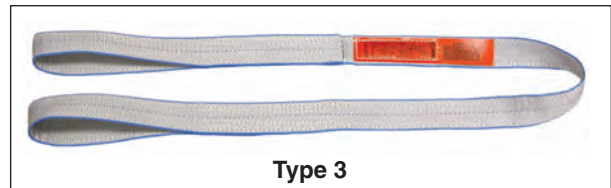


Type 2

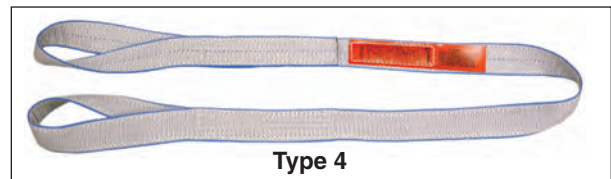
### Eye/Eye Type

**Type 3 (EE)** - Flat Eye slings are very popular and can be used in all three types of hitches. They are easier to remove from beneath the load than sling Types 1, 2 and 4. Type 3 will be supplied as the standard EE sling, unless Type 4 is requested.

**Type 4 (EE)** - Twisted Eye slings are similar to Type 3 except the eyes are turned 90°. The eyes of a Type 4 nest easily on the crane hook.



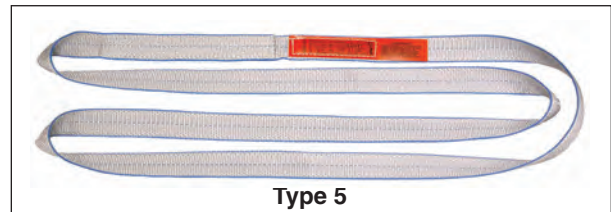
Type 3



Type 4

### Endless Type

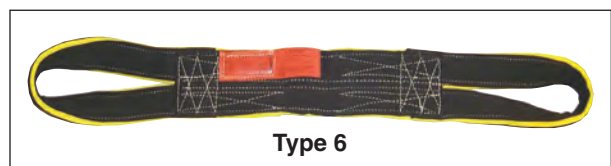
**Type 5 (EN)** - Endless slings are versatile and the most economically priced. They can be used in all three types of hitches. The sling can be rotated to minimize wear. The sling legs can be spread for improved load balance.



Type 5

### Reverse Eye Type

**Type 6 (RE)** - An endless sling with butted edges sewn together to double the sling width. They have reinforced eyes and wear pads on both sides of body and eyes for premium wear resistance.

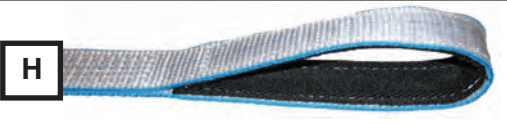
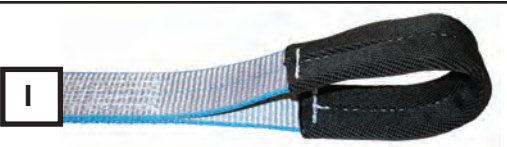


Type 6

## WEB SLING EYE TREATMENTS

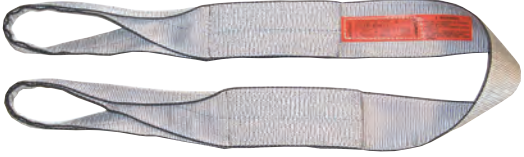
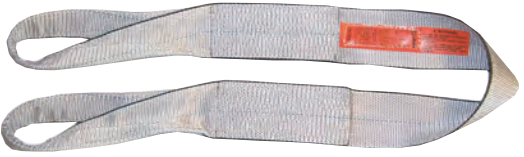
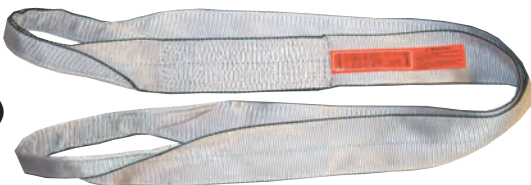
The eyes of web slings are often subjected to the harsh treatment of rough crane hooks. Specialty eye treatments are available to help reduce the wear in that area, thereby extending sling life. The following photos illustrate the more common eye treatments using wear-resistant webbing in various forms. Should you want eye treatment on your eye & eye web slings, please specify using the terminology below.

Web Slings

| Type 3 - Flat Eyes                                                                  |                       | Type 4 - Twisted Eyes                                                                |  |
|-------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------|--|
|    | Standard Style        |    |  |
|    | Lined Bearing Point   |    |  |
|    | Fully Lined Eye       |    |  |
|  | Wrapped Bearing Point |  |  |
|  | Fully Wrapped Eye     |  |  |

Textured, wear-resistant material is standard for these eye treatments.  
 Other pad materials are available in the Sling Protection section of this catalog.

**Tapering Eyes** - As a standard practice, the bearing points of the eyes on Type 3 and Type 4 slings are tapered to accommodate a crane hook on slings 3" and wider. Untapered eyes are available upon request. Type 5 (endless) slings are NOT tapered unless specified on order. *Dura-Web 2000* slings are NOT tapered in any width.

|                                                                                      |                                                                                      |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|   |  |
| Type 3 Flat Eyes                                                                     | Type 4 Twisted Eyes                                                                  |
|  |                                                                                      |
| Type 5 Endless (Showing Taper)                                                       |                                                                                      |

# Web Slings

## ENVIRONMENTAL CONSIDERATIONS

Exposure to sunlight and other environmental factors can result in accelerated deterioration of web slings. The rate of this deterioration varies with the level of exposure and with the thickness of the sling material.

Visible indication of such environmental deterioration can include the following:

- Fading of webbing color.
- Uneven or disoriented surface yarn of the webbing.
- Shortening of the sling length.
- Reduction in elasticity of the sling.
- Accelerated abrasive damage to the surface yarns of the sling.
- Breakage or damage to yarn fibers is often evident by a fuzzy appearance on the web.
- Stiffening of the web.

### Anti-Abrasion Treatment

*Lift-All* webbing is treated for abrasion. Heavy duty treatments are available as a supplemental process for greater protection. Natural, untreated webbing is available upon request.

### Elasticity

The stretch characteristics of web slings depends on the type of yarn and the web treatment. Approximate stretch at rated sling capacity:

| NYLON     |     | POLYESTER |    |
|-----------|-----|-----------|----|
| Treated   | 10% | Treated   | 7% |
| Untreated | 6%  | Untreated | 3% |

### Length Tolerance for Web Slings

| Sling Type    | Tolerance*                      |
|---------------|---------------------------------|
| 1-Ply         | ± (1.5" + 1.5% of sling length) |
| 2-Ply         | ± (2.0" + 2% of sling length)   |
| 3-Ply & 4-Ply | ± (3.0" + 3% of sling length)   |

\* For web sling widths wider than 6", add 1/2" to these values. For tighter tolerance or matched set lengths, please consult with Customer Service prior to Ordering.

### Sunlight / UV Exposure Service Life

Nylon and polyester web slings possess a limited useful service life due to the degradation caused by exposure to sunlight or other measurable sources of UV radiation.

*Lift-All* web slings that are regularly exposed to UV radiation should be identified with the date they are placed into service and should be proof-tested to twice their rated capacity every six months.

*Lift-All* nylon and polyester web slings shall be permanently removed from service when the cumulative UV or outdoor exposure has reached these limits:

- 2 years: 1-Ply and 2-Ply web slings
- 3 years: 3-Ply and 4-Ply web slings

### Temperature

Nylon and polyester slings degrade at temperatures above 200°F.

### Chemical Environment Data

Many chemicals have an adverse effect on nylon and polyester. The chemical chart below is a general guide only. For specific temperature, concentration and time factors, please consult *Lift-All* prior to purchasing or use.

| CHEMICAL                  | NYLON | POLYESTER       |
|---------------------------|-------|-----------------|
| Acids                     | NO    | OK <sup>+</sup> |
| Alcohols                  | OK    | OK              |
| Aldehydes                 | OK    | NO              |
| Alkalis                   | OK    | NO              |
| Bleaching Agents          | NO    | OK              |
| Dry Cleaning Solvents     | OK    | OK              |
| Ethers                    | OK    | OK              |
| Halogenated Hydro-Carbons | OK    | OK              |
| Hydro-Carbons             | OK    | OK              |
| Ketones                   | OK    | OK              |
| Oils Crude                | OK    | OK              |
| Oils Lubricating          | OK    | OK              |
| Soap & Detergents         | OK    | OK              |
| Water & Seawater          | OK    | OK              |
| Weak Alkalis              | OK    | OK              |

<sup>+</sup> Disintegrated by concentrated sulfuric acid.

Prior to sling selection and use, review and understand the HELP section.

## HOW TO ORDER WEB SLINGS

Web  
Slings

EE 1 8 02 T F X 12

### Sling Type

UU – Type U - *Unilink* Each End  
TC – Type 1 - Triangle/Choker  
TT – Type 2 - Triangle/Triangle  
EE – Type 3 & 4 Eye/Eye  
EN – Endless  
RE – Reverse Eye  
WL – Wide Lift

**Number of Plies**  
1, 2, 3 or 4

### Web Class

1 – *Dura-Web* 1000  
2 – *Dura-Web* 2000  
8 – *Webmaster* 1600 or *Tuff-Edge II*  
6 – *Webmaster* 1200  
SH – Stone Handling

Always protect synthetic slings from being cut or damaged by corners, edges and protrusions using protection sufficient for each application.



Refer to Sling Protection section in this catalog.

### Sling Length

Use actual pull to pull length (reach) in feet.

'X'

### Eye Treatments

#### Flat Eyes (Type 3)

F – Standard  
G – Lined Bearing Point  
H – Fully Lined  
I – Wrapped Bearing Point  
J – Fully Wrapped

#### Twisted Eyes (Type 4)

T – Standard  
U – Lined Bearing Point  
V – Fully Lined  
W – Wrapped Bearing Point  
X – Fully Wrapped

Exceptions: Class 1, 2 and SH slings.

#### Tapered Eye Standards

**Non-Tapered:** 1" and 2" wide slings.  
**Tapered:** 3" wider and up, in class 6 & 8 slings only.

**Note:** Other treatments can be accommodated. Please specify at time of order.

### Web Material

T – *Tuff-Edge*  
D – Polyester  
N – Nylon

**Sling Width** in inches