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The following commercial specification is an original Parachute Industry Association specification.

WEBBING, TEXTILE, NYLON TUBE EDGE

The Parachute Industry Association makes this document available for the use by Industry and Government organizations that wish to apply this specification to their products.

1. SCOPE

1.1 Scope. This specification covers one type of tubular edge nylon webbing used in the manufacture of load bearing systems.

2. CLASSIFICATION

2.1 Classification. The nylon tube edge webbing shall be similar to Type XVII webbing of PIA-W-4088 and shall be manufactured in a 1 inch (nominal) width.

3. SALIENT CHARACTERISTICS

3.1 Salient characteristics. The webbing shall be manufactured from nylon 6 or 6,6 on a shuttleless narrow fabric loom.

3.1.1 Materials.

3.1.2 Yarns. The nylon yarn used in the manufacture of the webbing shall be a bright, high tenacity, light and heat resistant polyamide. Nylon 6 or 6,6 shall be used as specified in the procurement document. If the type of nylon is not specified either type shall be used. The yarn shall not be bleached.

3.1.3 Denier. The nominal size of the warp, fill and lock stitch yarns shall be as specified in TABLE I.

3.1.4 Identification yarn.

3.1.4.1 Shuttleless loom identification. The webbing shall be woven with a knit edge containing a black lock stitch yarn as shown in FIGURE 1 (see page12). The yarn shall be as specified in TABLE I.

3.1.4.2 Nylon 6 identification. When nylon 6 is utilized the woven edge of the webbing shall contain a red marker yarn, cable No. 80081 of The Color Association of the United States.

3.1.5 Date of manufacture. When required by the procurement document the textile manufacturer shall properly identify the age of the textile materials by placing a tag on the finished goods or label the containers identifying the specification to which the material is manufactured, the lot number and the date of manufacture. The date of manufacture is defined as the last manufacturing process that affects the physical characteristics of the material (see 6.2).

3.2 Weave. The webbing shall be a double plain weave with tubular edges and woven as shown in FIGURE 2 (see page 12).

3.3 Construction and physical properties. The webbing shall conform to the construction and physical properties of TABLES I and II when tested as specified in 4.4.4.

3.4 Color. The color of the webbing and referenced color standard shall be as specified in the contract, purchase order or procurement document (see 6.2).

3.4.1 Color matching. If color is specified the color of the dyed webbing shall match the standard sample when viewed under a filtered tungsten lamp which approximates artificial daylight having a correlated color temperature of $7500^{\circ} \pm 200^{\circ}\text{K}$, with illumination of 100 ± 20 foot candles, and shall be a good match to the standard sample under incandescent lamplight at $2300^{\circ} \pm 200^{\circ}\text{K}$.

3.5 Colorfastness.

3.5.1 Dyed webbing. The dyed webbing shall show fastness to light and laundering and crocking equal to or better than the standard sample. If no standard sample is referenced the webbing shall show colorfastness as follows:

Characteristic	Rating, Min	Reference Scale
Light (Fade).	2-3	AATCC Gray Scale for Color Change.
Laundering: Color Stain.	2-3	AATCC Gray Scale for Color Transference.
Shade Change.	2-3	AATCC Gray Scale for Color Change.
Crocking-Wet and Dry.	3-4	AATCC Gray Scale for Color Transference.
Testing shall be as specified in 4.4.4		

3.5.2 Identification yarns. The, shuttleless loom and nylon 6 identification yarns shall show fastness to light and laundering equal to or better than the standard sample. If no standard sample is referenced the lock stitch yarn shall show a colorfastness to light and laundering as specified in 3.5.1.