



12/16/2011

DDL Test Methodology & Results

Load testing; All slings tested to x1.5 SWL (Safe Working Load)

ASTM D6775-02 (07); Standard Test Method for Breaking Strength and Elongation of Textile Webbing, Tape and Braided Material.

ASTM D1424-09; Standard Test Method for Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf-Type) Apparatus.

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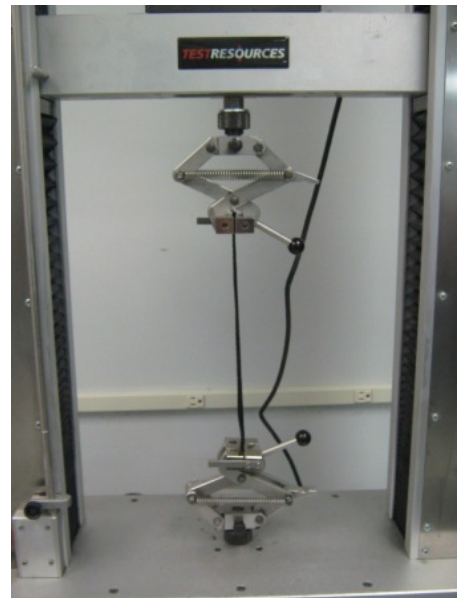


Testing Methodology



Slings: Each sling was attached to the hanger bar and loaded with sandbags to the stated test load (1500 lbs). The sling was then raised from the ground and held for twenty (20) minutes. After twenty (20) minutes, the sling was lowered and the next straps were attached to the hanger bar.

Webbing: Tensile testing of the webbing was guided by ASTM D6775-02 (07); *Standard Test Method for Breaking Strength and Elongation of Textile Webbing, Tape and Braided Material*. Five (5) samples were tested and the peak load and percent elongation were recorded.



Fabrics: Tear testing of the two (2) mesh materials was guided by ASTM D1424-09; *Standard Test Method for Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf-Type) Apparatus*.

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Five (5) samples in both the machine and cross direction were tested for each material. No wet specimen testing was performed.



Testing Results

Load Test Results:

- AMTSL w/ Figure 8 Straps (Load tested to x1.5 SWL = 1500 lbs)
- AM-Seat Sling w/ Figure 8 straps (Load tested to x1.5 SWL = 1500 lbs)
- Limbsling V2 w/ Figure 8 Straps (Load tested to x1.5 SWL = 330 lbs)

Webbing Test Results:

Using the *Standard Test Method for Breaking Strength and Elongation of Textile Webbing, Tape and Braided Material - ASTM D6775-02 (07)*.

1" Polyester Webbing - Average breaking strength = 1749 lbs

Fabric Test Results:

Using the *Standard Test Method for Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf-Type) Apparatus - ASTM D1424-09*.

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*- *Polyester Warp Knit Tricot (Blue)*
Machine/ Warp Thread: 5.531 lbs minimum to tear
Cross/ Weft Thread: 7.873 lbs minimum to tear

*- *Polyester Raschell Mesh (Gray)*
Machine/ Warp Thread: Cannot be torn (test machines only go to 14lbs max)
Cross/ Weft Thread: 6.885 lbs minimum to tear

Summary :

Fabrics and designs passed all testing as outlined above and are safe for use on lifting equipment with a SWL not to exceed 454kg / 1000lbs. Inspection before each use is critical and must be part of the daily protocol for use.