LIFESAVING SYSTEMS CORPORATION

LSC Test Report Number: F-730-192
Revision: A

Static Load Test Report

P/N: #192



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PURPOSE:

The purpose of this report is to determine the load strength of the #192 hoisting sling. Successful completion will confirm the device demonstrates the suitability and safety for use on LSC rescue litters. The hoist sling assembly shall be loaded on the adjustable leg end to determine strength and webbing slippage.

TEST FACILITY:

Testing and inspection were performed at Lifesaving Systems Corporation's (LSC) manufacturing facility located in Apollo Beach, Florida by LSC personnel.

EQUIPMENT UNDER TEST (EUT)

Part Number	LOT Number	Serial Number
192	0219	45037

SUMMARY OF TESTS PERFORMED & RESULTS:

Section	*Test Description*	*Results*
2.2	Static Load Test	The #192 hoisting sling can withstand a 2,500lb load on the adjustable leg before webbing slippage occurs.

SECTION 1- TEST CONDITIONS & EQUIPMENT:

1.1 ENVIRONMENTAL CONDITIONS

Load test shall be performed at a temperature of 75 ± 5°F, and a relative humidity of 50 ±15%.

1.2 TOLERANCES

The load cell tolerances shall be maintained within all applicable specified tolerances.

- 2000lbf ± 2lbf
- 4000lbf ± 3lbf
- 6000lbf ± 4lbf

1.3 INSTRUMENTS AND EQUIPMENT

LSC Tool No.	*Test Equipment*	*Description*	*Cal. Date*	*Cal. Due*
88	Cell, Load	Force Measurement: 10,000lb	7/03/2020	7/03/2021
57	Temp/RH	Temperature and Humidity	2/04/2020	2/04/2022

1.4 CALIBRATION

The instruments and equipment are calibrated according to manufacturer's specifications and calibration is traceable to the National Institute of Standards and Technology (NIST). Calibration records are maintained on file at Lifesaving Systems Corp. Photograph of the load cell calibration sticker can be found in Section 4 of this report.

SECTION 2- STATIC LOAD:

2.1 TEST PROCEDURE

Step 1. Mount the #192 sling inside the hydraulic pull tester by attaching the upper V-ring to the top grip of the machine.

Step 2. Mount the adjustable length leg with snap hook to the bottom shackle on the machine. The #192 shall be in a vertical orientation before load testing.

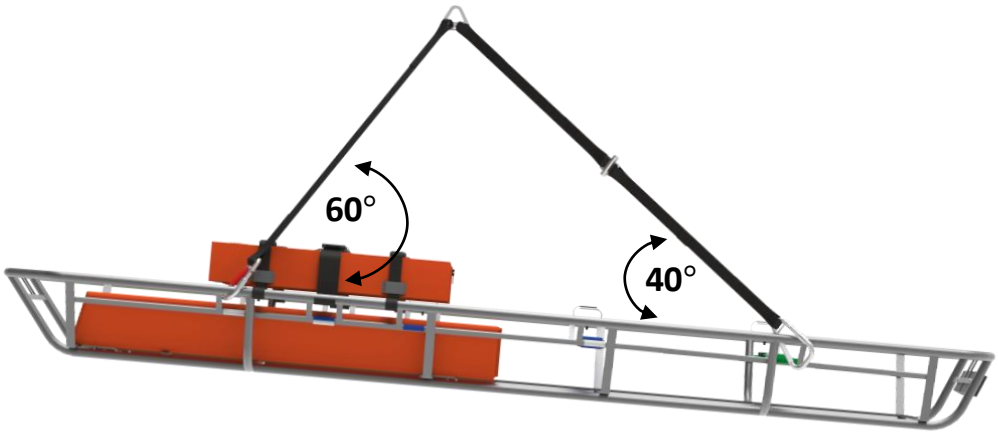
Step 3. Increase the force at a rate of 200lbf every 3 seconds until webbing slippage occurs or ultimate failure. Record results.

2.2 ANALYSIS OF RESULTS

Table1.

Pull Test	Target Load (lbf)	Load Cell Reading (lbf)	Pass/Fail	Comments
#192 Hoist Sling	2,500	2,585	PASS	Webbing slippage occurred. Sling assembly attained upper limits of test equipment without failure.

SECTION 3: CALCULATIONS



Note: The #192 Hoist Sling is adjustable on the foot section leg. The angles used for calculation are typical. Two slings are used for hoisting.

Load Calculations:

Load Factor (60°) = .8660
Load Factor (40°) = .6428
Webbing Rating (Slippage) = 2,500lbs

(2,500lb) webbing rating x (.866) load factor = 2,165lbs

(2,500lb) webbing rating x (.6428) load factor = 1,607lbs

Load Configuration: (2,165lbs x 2 legs) + (1,607lbs x 2 legs) = 7,544lbs

A 600 lb working load limit (WLL) on the 192 sling represents a safety factor of 12

SECTION 4: PHOTOGRAPHS





Pull Test: Adjuster Leg

Load: 2,585lbf

*Webbing slippage occurred. Reached upper limits of equipment without failure



Load Cell: Calibration Sticker