

## Quality Program Information on Lift-All Products

The many implemented processes of our quality program have helped assure our customers of the quality and technical advances that make Lift-All the nation's leading sling manufacturer.

### Lift-All Quality Program

We realize that our customers never forget quality, so Lift-All insures top quality in all of our products with the following quality control program:

1. Detailed specifications for each product.
2. Testing of raw materials prior to product manufacturing.
3. Random testing of finished products.
4. Proof testing as required (certificates available).
5. Final inspection of products prior to shipment.

### Industry Standards and the Design Factor for Lift-All Products

Lift-All is dedicated to manufacturing and developing products for material handling that meet or exceed current industry and government requirements, including OSHA, MSHA and ASME B30.9 for slings used for lifting purposes. Lift-All products do conform to the following:

Product Type	Standard / Specification	Product Design Factor
Cargo securement	USDOT FMCSA 393.102, CHP, WSTDA	3
Chain slings	OSHA 1910.184, ASME B30.9, NACM	4
Roundslings	ASME B30.9, WSTDA	5
Towing straps	NA	3
Webbing slings	OSHA 1910.184, ASME B30.9, WSTDA	5
Wire mesh slings	OSHA 1910.184, ASME B30.9	5
Wire rope slings	OSHA 1910.184, ASME B30.9	5

### **WARNING**

Never exceed the rated capacity of any sling. The loading of any sling beyond its rated capacity can result in severe personal injury or death. The sling design factor is based on destructive; laboratory controlled testing condition, which will not be exactly duplicated during actual use conditions.

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Lift-All does have a quality manual, based predominately upon Military Specification MIL-I-45208, with additional requirements also specified in the manual.

In regard to quality verification of our raw material, we require our sling material suppliers to strength test each lot of material that is provided to us, and maintain this information on file. Also, each lot of raw material used in all synthetic webbing, chain, and wire rope products is traceable, should a recall of material ever become necessary.

### **Proof Testing Procedures**

Proof testing is performed on all new, and repaired, welded chain slings, and wire mesh slings. Proof testing of new wire rope slings, roundslings, webbing slings, hardware and cargo securement products is not required, but is provided when requested by the purchaser.

### **Proof Testing of Slings and Sling Products**

When proof testing is executed, the following procedures are performed:

(a) The proof load value for single leg (branch) slings and endless slings is two times the vertical rated load (rated capacity).

(b) The proof load for multiple (branch) bridle slings is applied to the individual legs (branches) and is two times the vertical rated load (rated capacity) of the single leg (branch) slings.

### **Proof Testing of Cargo Securement Products**

The proof load value for cargo securement products is 125% of the working load limit.

### **Equipment Calibration**

Lift-All load testing equipment, calibrated annually, is capable of performing test loads up to 250,000 pounds for slings up to 70 feet long. All testing equipment requiring calibration is calibrated in accordance with the requirements of ASTM E4 – 98, thereby providing traceability to the National Institute of Standards and Technology (NIST).

### **ISO Certification**

Lift-All has not pursued formal ISO Certification. The time and money expended to qualify each of our 5 U.S. locations would be considerable and we do not recognize any noticeable benefit that would result to our quality program or to the quality of our products.

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**Independent Certification of Lift-All Quality Control Program**

Our quality program is periodically audited by several organizations.

**Independent Quality Audit – Nupic Commercial Grade Survey**

Numerous independent quality audits have been performed on Lift-All premises. These audits included those being performed periodically for the DOE / Nuclear Related functions. For example, Exelon (PECO) had performed a commercial / class 3 audit every three years using a NUPIC commercial grade survey checklist. The survey is performed by a representative of Exelon and closure to each survey is authorized by a NUPIC representative

This on-site review surveys the following:

- Design
- Procurement Control
- Materials Control
- Manufacturing Controls
- Inspection & Test Controls
- Measuring & Test Equipment Control
- Quality Program Control

Companies listed as compliant with the NUPIC requirements are generally authorized to provide products utilized by many companies associated with the Department of Energy for use in performing nuclear related material handling functions.

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