

# CHAIN SLING TRAINING AND CERTIFICATION

It is essential that personnel be thoroughly trained in the proper operation of lifting equipment and the handling of loads. Extreme care is necessary to offset the hazards of overloading, improper hitching, obstructing free passage of the load, and using equipment or materials for purposes other than those for which they have been designed.

**Acco will insure that chain slings supplied to you are in compliance with OSHA regulations covering industrial slings.**

With genuine *Kuplex II* component parts you receive a certificate of proof test and assembly issued with each sling shipment. This certifies that all *Kuplex II* component parts have been manufactured under rigid industry approved standards. In addition, it certifies that the sling has been assembled by an authorized distributor using genuine *Kuplex II* component parts.

This test certificate certifies that your *Acco* Registered Chain Sling has been proof tested to at least twice its rated working load limit. It specifies the Working Load Limit in pounds and degrees from horizontal. The certificate also states the terms of the *Acco* warranty.

**The Working Load Limit:**

The "working load limit" is the maximum load which at any time or under any condition should ever be applied in direct tension to a straight length of chain or a sling component.

**The Proof Test:**

The "proof test" is a term designating the tensile test applied to a chain during or subsequent to the process of manufacture for the sole purpose of detecting defects in the material or manufacture and should not be used as criteria for service or design. It is the load which the chain has withstood, in the condition and at the time it left the factory, under a test in which the load has been applied in direct tension to a straight length of chain or component with a uniform rate of speed on a standard chain testing machine. The actual loads applied vary with the size and type of chain or component being tested but are sufficient to provide the necessary proof test.

**The Registered Sling Metal Identification Tag:**

Every *Accoloy* Welded Sling bears a metal identification tag. It provides 7 important pieces of information:

1. The Sling Manufacturer
2. Sling Serial Number
3. Working Load Limit at a lift angle
4. Reach, Feet and Inches
5. Grade
6. Size
7. Number of legs

This information is needed by the user and for inspection or should the chain sling ever need servicing.

**Effect of Elevated Temperature on the Working Load Limit of Alloy Chain & Components**

Temperature		Grade of Chain					
		Grade 63		Grade 80		Grade 100	
(F°)	(C°)	Reduction of Working Load Limit WHILE AT Temperature	Reduction of Working Load Limit AFTER EXPOSURE to Temperature	Reduction of Working Load Limit WHILE AT Temperature	Reduction of Working Load Limit AFTER EXPOSURE to Temperature	Reduction of Working Load Limit WHILE AT Temperature	Reduction of Working Load Limit AFTER EXPOSURE to Temperature
Below 400	Below 204	None	None	None	None	None	None
400	204	None	None	10%	None	15%	None
500	260	None	None	15%	None	25%	5%
600	316	10%	None	20%	5%	30%	15%
700	371	20%	None	30%	10%	40%	20%
800	427	30%	None	40%	15%	50%	25%
900	482	40%	None	50%	20%	60%	30%
1000	538	50%	10%	60%	25%	70%	35%
Over 1000	Over 538	OSHA 1910.184 requires all slings exposed to temperatures over 1000°F to be removed from service.					