

Safety Guidelines

General Safety Guidelines

As a manufacturer of chain, Kito Crosby can only control the specifications of our chain products in accordance with industry and governmental standards for chain manufacturing. It would be impossible for any warning to contain all of the possible misapplications associated with the use of Peerless products. Our warnings are intended to identify only those risks which are most common. The responsibility and understanding of the proper safe use and application of the products in our catalog ultimately rest with the end user. We are not responsible for the end user's assembly which our products may be used. Failure of the product can occur due to misapplication, abuse, intentional alteration, improper maintenance, or failure to inspect. Product failure can result in property damage, personal injury or death.

Working Load Limit (WLL)

The "Working Load Limit" (rated capacity) is the maximum load, which at any time or under any condition should ever be applied to chain or sling components when the load is evenly applied in direct tension to an undamaged straight length of chain, strap or fittings.

The following factors or abuses will lessen the load that the chain assembly will withstand and should be avoided:

- Tip loading of hooks
- Twisting of the chain
- Disfigurement
- Deterioration of chain or component by wear, usage, corrosion or pitting.
- Shock loading or the sudden impact of a load.
- Use other than that for which the chain or components was intended.

CAUTION: Chain and component assemblies should be rated according to the working load limit of the weakest component. Care should be taken to select attachments of the same type, grade, size and working load limit as the chain.

Proof Test

The "Proof Test" (manufacturing test force) is a term designating the minimum tensile force which has been applied to a chain under constantly increasing force in direct tension during the manufacturing process. **These loads are manufacturing integrity tests and shall not be used as criteria for service or design purposes.**

Minimum Breaking Force

The "Minimum Breaking Force" is the minimum force at which the chain during manufacture has been found by testing to break when a constantly increasing force is applied in direct tension. Breaking force values are not guarantees that all chain segments will endure these loads. **This test is a manufacturer's attribute acceptance test and shall not be used as a criteria for service or design purposes.**

It is very important to know that the Working Load Limit and all other associated safety factor of each Peerless product may be affected by wear, misuse, overloading, corrosion, deformation, intentional alteration and other use conditions. Regular inspection should be performed per OSHA 1910.184 and any chain sling with visible deformation or degeneration should be removed from service. The

terms "Working Load Limit," "Proof Test" and "Minimum Breaking Force" contain no implication of what load the chain will withstand if the chain is used in such conditions of abuse and misuse. Kito Crosby accepts no liability for abuse or misuse of their products.

PRODUCTS ARE INTENDED TO BE USED AT OR BELOW THE MAXIMUM WORKING LOAD LIMITS SPECIFIED IN CONSTANTLY INCREASING FORCE APPLICATIONS UNDER DIRECT TENSION OR IN A STRAIGHT LINE PULL.

SHOCK LOADING IS PROHIBITED, AND SIDE LOADING MUST BE AVOIDED AS IT EXERTS ADDITIONAL DYNAMIC FORCES ON THE LOAD, WHICH THE PRODUCT IS NOT DESIGNED TO ACCOMMODATE.

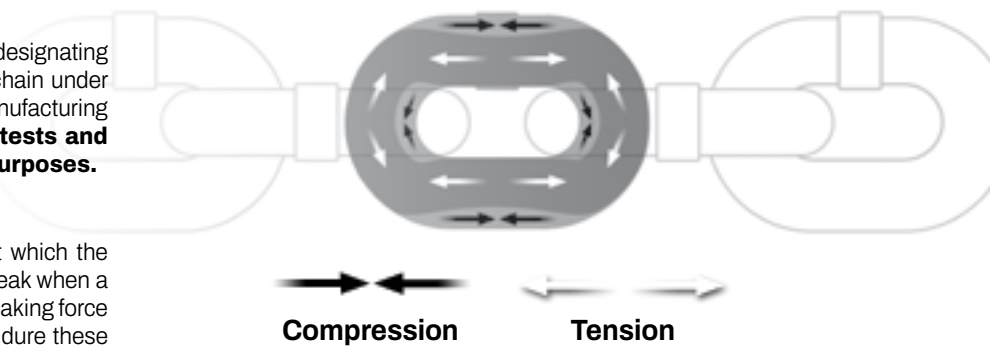
All chains and attachments in this catalog are capable of creating sparks unless otherwise noted. Although the materials covered are not considered as hazardous in the state in which they are delivered to you, subsequent burning, welding, brazing, heating, sanding, grinding, polishing and cutting operations may release metallic dust or fumes that could be hazardous. If you intend to perform any of these or similar operations, the Kito Crosby should be consulted for the information that is appropriate for your circumstances.

Welding for overhead lifting and cargo control applications can be hazardous. Welding must be done in accordance with Kito Crosby procedures and must be compliant with all applicable Standards. This includes knowledge of materials, preparation, heat treating, and testing for all welding applications.

CONSULT KITO CROSBY FOR ADDITIONAL INFORMATION OR QUESTIONS REGARDING THE USE AND APPLICATION OF THE PRODUCTS COVERED IN THIS CATALOG.

Regarding Chain:

"Physics" of a chain link. Chain link stress:



Types of Chain:

Welded		Weldless
Grade 100 (G100) Alloy Chain	Trawl Door Chain	Twin Loop Chain
Grade 80 (G80) Alloy Chain	Scallop Sweep Chain	Brass Plumber Chain
Grade 70 (G70) Transport Chain	Straight Link Coil Chain	Jack Chain
Grade 70 (G70) ISO Chain	Twist Link Coil Chain	Sash Chain
Grade 43 (G43) High Test Chain	Straight Link Machine Chain	Lock Link Chain
Grade 43 (G43) High Test ISO Chain	Twist Link Machine Chain	Plastic Chain
Grade 30 (G30) Proof Coil Chain	Passing Link Chain	Décor Chain
Grade 30 (G30) Proof Coil ISO Chain	Spinning & Cathead Chain	---
Stainless Steel Chain	Debarking Chain	---
BBB Chain	Logging Chain	---
Mooring Chain	Hand Brake Rail Chain	---
Deck Lashing Chain	Magnet Chain	---
Tuna Chain	Studio Chain	---
Trawlex Chain	Theatrical Rigging Alloy Chain	---

How to Measure Chain:

In this catalog, all dimensions shown are nominal and all weights are approximate. See individual pages for Working Load Limits.

