



Chain

SULLIVAN
WIRE ROPE & RIGGING INC.

Failure to follow warnings and instructions can result in serious injury or death.

Refer to the General Warnings

These warnings also apply to chain and chain assemblies. Only additional warnings and information are listed below.

Never exceed the Working Load Limit of the Chain.

The Working Load Limit is the maximum load that should ever be applied to the chain, even when new and when the load is uniformly applied. Working Load Limit applies only to straight line pulls. When using multiple leg chain slings, the Working Load Limit of each leg will have to be reduced considerably depending on the angle of the sling legs.

Consult industry recommendations for information, such as ASME B 30.9.

When in doubt as to the Working Load Limit of the chain, refer to the periodic, permanently embossed grade marking on chain links. Proof Coil Chain is identified by P.C. or 30 or 3 or 28; HighTest Chain by H.T. or 43 or 40 or 4; Transportation Chain by 70 or 7; Alloy Chain by 80 or 8 or 800.

Use only alloy chain for overhead lifting.

Grade 80 alloy chain is the only type of chain which can be used for overhead lifting. Use only grade 80 alloy fittings for overhead lifting.

Attachments must have at least the same Working Load limit as the chain used.

Hooks, links, shackles, etc. must be of suitable material and strength to provide adequate safety protection.

Keep out from under a raised load.

Do not operate load over people. Do not ride on loads. Conduct all lifting operations in such a manner that if equipment were to fail or break, no personnel would be injured. This means **KEEP OUT FROM UNDER A RAISED LOAD, DO NOT OPERATE LOADS OVER PEOPLE AND KEEP OUT OF THE LINE OF FORCE OF ANY LOAD.**

Avoid shock loads.

Avoid impacting, jerking or swinging of load. Working Load Limit will not apply in these circumstances because a shock load is generally significantly greater than the static load.

Inspect chain frequently.

No product can keep operating at its rated capacity indefinitely. Closely examine each link for deformation, cracks, elongation, corrosion, rust, etc. Take chain out of service even if only one bad link is found. Eliminate r.ists and kinks in chain before using. Do not attempt to repair damaged or worn links in a chain. Do not attempt to weld, anneal, heat treat or hot galvanize alloy chain
-its capacity will be completely destroyed. Protect chain from corrosion.

Destroy, rather than discard, chain that is judged to be defective.

Chain that is not destroyed might be used again by someone not aware of the hazard associated with that use. Destroying chain is best done by cutting it up into short pieces.

Chain Slings

Only grade 80 alloy chain can be used for overhead lifting.

Refer to OSHA standard 1910.184 and ASME standard 830.9 for design factors and other important information.

Other standards and information may apply depending on specific use.



**CAUTION: NEVER EXCEED THE WORKING LOAD LIMIT OF CHAIN.
NEVER USE PROOF COIL CHAIN FOR OVERHEAD LIFTING OR WHERE ITS FAILURE WILL CAUSE
DAMAGE TO PROPERTY OR LIFE.**

Read important warnings and information preceding chain section.

PROOF COIL CHAIN (GRADE 30)

Self colored-zinc plated-hot galvanized.

Trade Size	Working Load Limit in Pounds	Feet per Drum	Ft. per 1/2 Drum	Minimum Weight per Foot	Max. Length per 100 Links
1/8"	375	-	1,000	.17	90.5"
3/16"	750	1600	800	.33	96.4"
1/4"	1,250	800	400	.63	124.0"
5/16"	1,900	550	275	.93	129.1"
3/8"	2,650	400	200	1.41	137.8"
1/2"	4,500	200	100	2.40	179.1"
5/8"	6,900	150	75	3.58	220.5"
3/4"	9,750	100	50	5.48	275.6"
7/8"	11,375	75	35	7.31	258.7"
1"	13,950	60	30	9.41	287.8"

CHAIN

DEALER PAILS, PROOF COIL CHAIN (GRADE 30)

Self colored-zinc plated-hot galvanized.

Trade Size	Working Load Limit in Pounds	Feet per Pail, approx.
1/8"	375	475
3/16"	750	250
1/4"	1,250	141
5/16"	1,900	92
3/8"	2,650	63
1/2"	4,500	35

LONG LINK CHAIN (GRADE 30)

Galvanized

Trade Size	Working Load Limit in Pounds	Feet per Drum	Min. Weight per Foot in Pounds	Inside length in. per link	Inside width in. per link
1/2"	4,500	200	2.55	2.00	.88
5/8"	6,900	150	3.50	2.56	1.00



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DAMAGE TO PROPERTY OR LIFE.**

Read important warnings and information preceding chain section.

HIGH TEST CHAIN (GRADE 40)

Self colored-hot galvanized.

Trade Size	Working Load Limit in Pounds	Feet per Drum	Ft. per 1/2 Drum	Minimum Weight per Foot	Max. Length per 100 Links
1/4"	2,600	800	400	.63	124.0"
5/16"	3,900	550	275	.93	129.111
3/8"	5,400	400	200	1.41	137.8"
1/2"	9,200	200	100	2.40	179.1"
5/8"	11,500	150	75	3.58	220.5"
3/4"	16,200	100	50	5.48	275.6"

CHAIN

DEALER PAILS, HIGH TEST CHAIN (GRADE 40)

Self-colored.

Trade Size	Working Load Limit in Pounds	Feet per Pail, approx.
1/4"	2,600	130
5/16"	3,900	90
3/8"	5,400	64



**CAUTION: NEVER EXCEED THE WORKING LOAD LIMIT OF CHAIN.
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DAMAGE TO PROPERTY OR LIFE.**

Read important warnings and information preceding chain section.

TRANSPORT CHAIN (GRADE 70) Plated

Self colored-hot galvanized.

Trade Size	Working Load Limit in Pounds	Feet per Drum	Ft. per 1/2 Drum	Minimum Weight per Foot	Max. Length per 100 Links
1/4"	3,150	800	400	.63	124.0"
5/16"	4,700	550	275	.93	129.1"
3/8"	6,600	400	200	1.41	137.8"
1/2"	11,300	200	100	2.40	179.1"

CHAIN

STAINLESS STEEL CHAIN, TYPE 316



**CAUTION: NEVER EXCEED THE WORKING LOAD LIMIT OF CHAIN.
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DAMAGE TO PROPERTY OR LIFE.**

Read important warnings and information preceding chain section.

STAINLESS STEEL CHAIN (TYPE 316)

Self colored-hot galvanized.

Trade Size	Working Load Limit in Pounds	Feet per Drum	Minimum Weight per Foot	Max. Length per 100 Links
1/8"	375	800	.17	88.8"
3/16"	1,150	800	.38	96.4"
1/4"	1,860	400	.61	124.0"
5/16"	2,425	275	.84	129.1"
3/8"	3,800	200	1.40	137.8"
1/2"	6,425	200	2.34	179.1"
5/8"	9,725	300	3.58	220.5"
3/4"	15,175	200	5.51	275.6"

**CAUTION: NEVER EXCEED THE WORKING LOAD LIMIT OF CHAIN.
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DAMAGE TO PROPERTY OR LIFE.**

Read important warnings and information preceding chain section.

HIGH TEST BOOMER CHAIN (GRADE 40)

High Test chain with eye grab hook each end.

Size	Working Load Limit in Pounds	Approx. Wt. Each in Pounds
1/4" X 20ft.	2,600	13.5
5/16" X 20 ft.	3,900	20.0
3/8" X 20ft.	5,400	30.5

BINDING CHAIN (GRADE 70)

Transport chain with eye grab hook each end.

Size	Working Load Limit in Pounds	Approx. Wt. Each in Pounds
5/16" X 20 ft.	4,700	20.0

BINDING CHAIN (GRADE 70)

Transport chain with eye grab hook each end.

Wire Rope Diam.	Length	Working load limit in Pounds	Grade	No. of links	Approx. Weight Each in Pounds
3/8"	18"	5,400	High Test	13	5
1/2"	18"	12,000	Alloy	9	7
5/8"	18"	18,100	Alloy	8	10
3/4"	18"	28,300	Alloy	9	13
7/8"	24"	34,200	Alloy	9	24
1"	24"	38,750	Alloy	7	27

Proper end connection to wire rope should be maintained.





CAUTION: NEVER EXCEED THE WORKING LOAD LIMIT OF CHAIN. USE ONLY GRADE 80 ALLOY CHAIN FOR OVERHEAD LIFTING.

Read important warnings and information preceding chain section.

CHAIN SLINGS

Only grade 80 alloy chain can be used for chain slings for overhead lifting. Refer to OSHA standard 1910.184 and ASME standard 830.9 for design factors and other important information. Other standards and information may apply.

ALLOY CHAIN (GRADE 80)

Trade Size	Trade Size mm	Working load limit in Pounds	Feet per Drum	Ft. per 1/2 Drum	Minimum Weight per foot in Pounds	Maximum length per 100 Links in Inches
9/32"	7	3,500	800	400	.71	88
5/16"	8	5,100	500	250	.92	96
3/8"	10	7,100	500	250	1.44	126
1/2"	13	12,000	300	150	2.36	164
5/8"	16	18,100	200	100	3.76	202
3/4"	20	28,300	100	50	5.50	252
7/8"	22	34,200	100	50	7.12	277
1"	26	48,000	100	50	9.65	293
1.1/4"	32.5	81,400	60	--	15.75	375

CHAIN



NEVER EXCEED THE WORKING LOAD LIMIT.

Failure to follow warnings and instructions can result in serious injury or death.
Read important warnings and information preceding fittings section.

- IMPROPER OPERATION OF LOAD BINDERS CAN RESULT IN SERIOUS INJURY OR DEATH.
- Never exceed the Working Load Limit.
- Read the following warnings,
 - *Do not operate the binder while you or anyone else is on the load. You might slip or fall risking serious injury or death.
 - When applying the binder, always position the load binder so the handle is tightened in a downward manner. Failure to do so may result in a sudden snapping back of the lever which might result in serious injury or death.
 - Load binders are designed to be tightened to the approximate Working Load Limit by a substantial hand effort. Do not use a handle extension. Extensions can severely damage the binder system and result in serious injury or death.
 - The operator should at all times use the load binder from a firm standing position that will ensure protection for himself as well as those in the immediate vicinity.
 - Load binders are a form of machinery and require periodic inspection and maintenance. Inspect for wear, deformation, cracks, nicks or gouges before using. Replace if damaged.
 - Load binders should be periodically lubricated to give optimum performance and reduce friction losses.
 - Consult the U.S. Government Printing Office for the Federal Motor Carrier Safety Regulations for additional important information, specifically S 393.9 (relating to safe loading), S 393.100 (relating to protection against shifting cargo) and S 393.102 (relating to strength securement systems).

STANDARD LOAD BINDERS, LEVER TYPE.

- In releasing lever type binders, be sure no one is positioned to be struck by the handle which may release suddenly.
- If there is a possibility for a relaxation of the chain when the binder is in the locked or "over center" position, the handle should be secured to the binding chain by securely wrapping the loose end of the chain around the handle. Whenever possible, secure the handle down with a positive retaining method.

Forged steel, heat treated, painted red.

Size	Model Number	Working load limit in Pounds	Breaking Strength in Pounds*	Approx. Wt. Each in Pounds	Take-up
1/4"	SUL 14	2,600	7,750	3.1	2.1/2"
5/16"-3/8"	SUL38	5,400	19,000	8.25	3.3/4"
3/8"-1/2"	SUL 12	9,200	27,600	11.5	4.1/4"



RATCHET LOAD BINDERS

Forged steel, heat treated, painted red.

Size	Model Number	Working load limit in Pounds	Breaking Strength in Pounds*	Approx. Wt. Each in Pounds	Take-up
5/16"-3/8"	SUL38	5,400	19,000	11.25	8"
3/8"-1/2"	SUL12	9,200	27,600	13.25	8"



*Listed for comparison only. Never exceed the Working Load Limit.