CHAINS









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Notes

CHAIN
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Chain Dimensions

Grade 30 Specifications

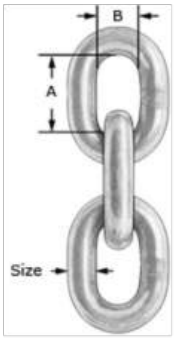
Size	Wire Diameter		Inside Dimensions		Working Load	Wt. Per
Inches	mm	Inches	Length Inches	Width Inches	Limit Lbs	100 ft. Lbs.
Exact						
3/16"	4.8	0.192	1.035	0.340	600	27.00
1/4"	6.3	0.250	1.070	0.440	1,050	53.00
5/16"	8.0	0.312	1.198	0.550	1,700	86.00
3/8"	9.5	0.375	1.519	0.649	2,400	121.00
1/2"	12.5	0.500	1.990	0.837	4,150	206.00
5/8"	16.0	0.630	2.530	0.920	6,800	330.00
Trade						
1/8"	4.0	0.162	0.900	0.290	355	20.39
3/16"	5.0	0.218	0.960	0.400	800	40.00
1/4"	7.0	0.276	1.190	0.500	1,300	63.60
5/16"	8.0	0.329	1.240	0.460	1,900	94.80
3/8"	10.0	0.385	1.330	0.570	2,650	133.00
1/2"	13.0	0.519	1.720	0.750	4,500	258.00
5/8"	16.0	0.656	1.900	0.820	6,900	382.00
NACM						
1/8"	4.0	0.156	0.940	0.250	375	19.00
3/16"	5.5	0.217	0.980	0.300	800	38.00
1/4"	7.0	0.276	1.240	0.380	1,300	66.00
5/16"	8.0	0.315	1.290	0.440	1,900	98.00
3/8"	10.0	0.394	1.380	0.550	2,650	144.00
1/2"	13.0	0.512	1.790	0.720	4,500	278.00
5/8"	16.0	0.630	2.200	0.790	6,900	422.00

Use as guide lines only.

Grade 30 Bright and Polished Exact Chain

A low carbon general purpose utility chain used in applications where high tensile strength is not required.





G 30 Chain Bright	Nominal Dimension Inches		WLL (lbs)	Footage	Weight 100 ft	Product Code
Size	A	B				
Full Drums						
1/8"	0.94	0.25	375	1,000	19	38022008
3/16"	0.95	0.35	590	750	29	38022012
1/4"	1.30	0.43	1,040	700	50	38022016
5/16"	1.38	0.47	1,650	500	73	38022020
3/8"	1.42	0.56	2,340	400	123	38022024
1/2"	1.79	0.72	4,180	200	215	38022032
5/8"	2.76	0.88	6,750	150	321	38022040
Half Drum						
1/8"	0.94	0.25	375	500	19	380220081
3/16"	0.95	0.35	590	375	29	380220121
1/4"	1.30	0.43	1,040	350	50	380220161
5/16"	1.38	0.47	1,650	275	73	380220201
3/8"	1.42	0.56	2,340	200	123	380220241
1/2"	1.79	0.72	4,180	100	215	380220321
Pail Pack						
3/16"	0.95	0.35	590	150	29	380220122
1/4"	1.30	0.43	1,040	115	50	380220162
5/16"	1.38	0.47	1,650	83	73	380220202
3/8"	1.42	0.56	2,340	66	123	380220242
1/2"	1.79	0.72	4,180	50	215	380220322

Material	Low Carbon Steel
Finish	Bright and Polished
Design Factor	3:1

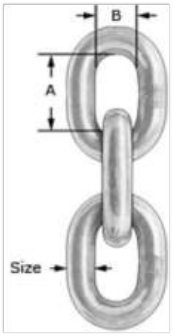
WARNING : **NEVER EXCEED WORKING LOAD LIMITS!**
Do not use Grade 30 or 40 chains for overhead lifting applications.

Grade 30 Hot Dip Galvanized Exact Chain

A low carbon general purpose utility chain that has been hot dipped galvanized for extra corrosion resistance, used in applications where high tensile strength is not required.



G 30 Chain Galvanized	Nominal Dimension Inches		WLL (lbs)	Footage	Weight 100 ft	Product Code
Size	A	B				
Full Drums						
1/8"	0.94	0.25	375	1,000	19	38032008
3/16"	0.95	0.35	590	750	29	38032012
1/4"	1.30	0.43	1,040	700	50	38032016
5/16"	1.38	0.47	1,650	500	73	38032020
3/8"	1.42	0.56	2,340	400	123	38032024
1/2"	1.79	0.72	4,180	200	215	38032032
5/8"	2.76	0.88	6,750	150	321	38032040
Half Drum						
1/8"	0.94	0.25	375	500	19	380320081
3/16"	0.95	0.35	590	375	29	380320121
1/4"	1.30	0.43	1,040	350	50	380320161
5/16"	1.38	0.47	1,650	275	73	380320201
3/8"	1.42	0.56	2,340	200	123	380320241
1/2"	1.79	0.72	4,180	100	215	380320321
Pail Pack						
3/16"	0.95	0.35	590	150	29	380320122
1/4"	1.30	0.43	1,040	115	50	380320162
5/16"	1.38	0.47	1,650	83	73	380320202
3/8"	1.42	0.56	2,340	66	123	380320242
1/2"	1.79	0.72	4,180	50	215	380320322



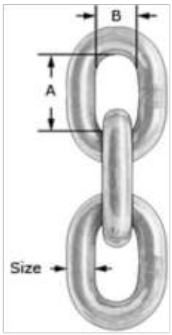
Material	Low Carbon Steel
Finish	Hot Dip Galvanized
Design Factor	3 : 1

WARNING : NEVER EXCEED WORKING LOAD LIMITS!
Do not use Grade 30 or 40 chains for overhead lifting applications.

Grade 30 Electro Galvanized Exact Chain

A low carbon general purpose utility chain with a zinc finish used in applications where high tensile strength is not required.





G 30 Chain E. Galv.	Nominal Dimension Inches		WLL (lbs)	Footage	Weight 100 ft	Product Code
Size	A	B				
Full Drums						
1/8"	0.94	0.25	375	1,000	19	38040008
3/16"	0.95	0.35	590	750	29	38040012
1/4"	1.30	0.43	1,040	700	50	38040016
5/16"	1.38	0.47	1,650	500	73	38040020
3/8"	1.42	0.56	2,340	400	123	38040024
1/2"	1.79	0.72	4,180	200	215	38040032
Half Drum						
1/8"	0.94	0.25	375	500	19	380400081
3/16"	0.95	0.35	590	375	29	380400121
1/4"	1.30	0.43	1,040	350	50	380400161
5/16"	1.38	0.47	1,650	275	73	380400201
3/8"	1.42	0.56	2,340	200	123	380400241
1/2"	1.79	0.72	4,180	100	215	380400321
Pail Pack						
3/16"	0.95	0.35	590	150	29	380400122
1/4"	1.30	0.43	1,040	115	50	380400162
5/16"	1.38	0.47	1,650	83	73	380400202
3/8"	1.42	0.56	2,340	66	123	380400242
1/2"	1.79	0.72	4,180	50	215	380400322

Material	Low Carbon Steel
Finish	Electro Galvanized
Design Factor	3 : 1

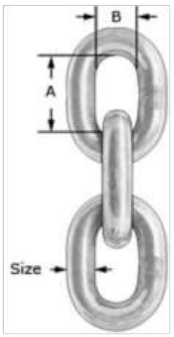
WARNING : NEVER EXCEED WORKING LOAD LIMITS!
Do not use Grade 30 or 40 chains for overhead lifting applications.

Grade 70 Transport Chain

Boron Manganese heat treated steel provides exceptional hardness and toughness. Commonly used as a binder tie down chain, meeting the stringent Department of Transport requirements.



G 70 Chain Size	Nominal Dimension Inches		WLL (lbs)	Footage	Weight 100 ft	Product Code
	A	B				
Full Drums						
1/4" SL *	0.88	0.43	3,150	800	75	380710163
1/4" RL *	1.24	0.46	3,150	800	73	38071016
5/16"	1.29	0.44	4,700	550	93	38071020
3/8"	1.38	0.55	6,600	400	143	38071024
7/16"	1.64	0.65	9,000	300	207	38071028
1/2"	1.79	0.72	11,300	200	240	38071032
Half Drum						
1/4" SL *	0.88	0.43	3,150	400	75	380710164
1/4" RL *	1.24	0.46	3,150	400	73	380710161
5/16"	1.29	0.44	4,700	275	93	380710201
3/8"	1.38	0.55	6,600	200	143	380710241
7/16"	1.64	0.65	9,000	150	207	380710281
1/2"	1.79	0.72	11,300	100	240	380710321
Pail Pack						
1/4" RL	1.24	0.46	3,150	114	73	380700162
5/16"	1.29	0.44	4,700	92	93	380700202
3/8"	1.38	0.55	6,600	66	143	380700242
1/2"	1.79	0.72	11,300	50	240	380700322



Material	Boron Manganese Steel.	
Finish	Yellow Chromate	
Elongation	Min 15 %	
Design Factor	4 : 1	In accordance with NACM Specifications

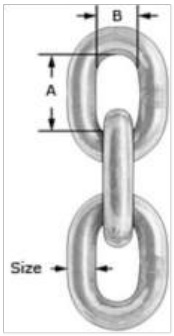
*** SL Short Link * RL Regular Link**

WARNING : NEVER EXCEED WORKING LOAD LIMITS!
Do not use Grade 70 chain for overhead lifting applications.

Grade 80 Alloy Lifting Chain

Produced to exceed the rigorous requirements of overhead lifting.
This grade of lifting chain has good strength-to-weight ratio and excellent durability.
Meets or exceeds all NACM & ASTM Standards





G 80 Chain Size	Nominal Dimension Inches		WLL (lbs)	Footage	Weight 100 ft	Product Code
	A	B				
Full Drums						
9/32"	0.88	0.41	3,500	800	72	38081016
5/16"	1.02	0.48	4,500	500	106	38081020
3/8"	1.22	0.57	7,100	400	150	38081024
1/2"	1.56	0.75	12,000	200	261	38081032
5/8"	1.93	0.92	18,100	150	361	38081040
3/4"	2.36	1.02	28,300	196	610	38081048
7/8"	2.60	1.13	34,200	164	720	38081056
1"	3.07	1.33	47,700	98	1025	38081100

Material	High grade Ni-Cr-Mo Alloy Chain
Finish	Special Black Epoxy.
Elongation	Min 20 %
Design Factor	4 : 1 In accordance with NACM Specifications

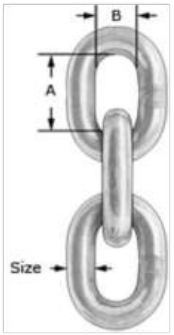
WARNING: NEVER EXCEED WORKING LOAD LIMITS!
LOAD RATINGS ARE FOR CHAINS IN 'NEW CONDITION'!
INSPECT LIFTING CHAINS REGULARLY AND
REPLACE ALL COMPONENTS SHOWING SIGNS OF WEAR!

Grade 100 VQ Alloy Lifting Chain

Produced to exceed the rigorous requirements of overhead lifting.
Manufactured from a super high quality alloy steel that allows for 25 % higher working load limit (WLL) than comparable Grade 80 Alloy Chain.



G 100 Chain Size	Nominal Dimension Inches		WLL (lbs)	Footage	Weight 100 ft	Product Code
	A	B				
Full Drums						
9/32"	0.88	0.41	4,300	800	72	38151016
5/16"	1.02	0.48	5,700	500	106	38151020
3/8"	1.22	0.57	8,800	400	150	38151024
1/2"	1.56	0.75	15,000	200	261	38151032
5/8"	1.93	0.92	22,600	150	361	38151040
3/4”	2.44	1.008	35,300		578	38151048
7/8”	2.59	1.161	42,700		732	38151056



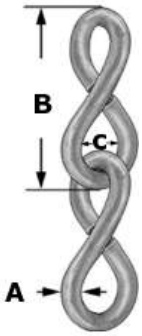
Material	High grade Ni-Cr-Mo Alloy Chain
Finish	Gray Armour
Elongation	Min 20 %
Design Factor	4 : 1 In accordance with NACM Specifications

WARNING: NEVER EXCEED WORKING LOAD LIMITS!
LOAD RATINGS ARE FOR CHAINS IN 'NEW CONDITION'!
INSPECT LIFTING CHAINS REGULARLY AND
REPLACE ALL COMPONENTS SHOWING SIGNS OF WEAR!

Single Jack Chain

A light duty unique chain, in that each link features two eyes 90 ° out of plane to each other. Some uses for this chain are hanging fixtures, children's toys and general utility applications where high strength is not required





Single Jack Chain Size	Nominal Dimension Inches A	B	C	WLL (lbs)	Footage	Weight 100 ft	Product Code
Cartons							
# 16	0.063	0.626	0.177	10	100	3	
# 14	0.079	0.787	0.189	16	100	5	
# 12	0.106	0.965	0.217	29	100	9	38305112
# 10	0.134	1.201	0.315	47	100	15	383040101
# 10 T	0.134	1.339	0.315	43	50	13	383050101
# 8	0.157	1.598	0.374	60	100	21	383051081
Reels							
# 16	0.063	0.626	0.177	10	250	3	
# 14	0.079	0.787	0.189	16	200	5	
# 12	0.106	0.965	0.217	29	100	9	38305112
# 10	0.134	1.201	0.315	47	250	15	
# 8	0.157	1.598	0.374	60	1000	21	38305108
# 10 T	0.134	1.339	0.315	43	250	13	383050102

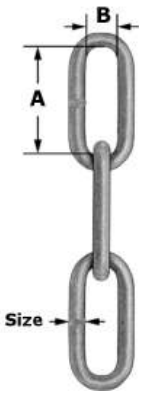
Material: Low Carbon Steel, Not Heat Treated
Finish: Zinc Plated, White polymer, other finishes available on request

WARNING: DO NOT USE FOR OVERHEAD LIFTING!
DO NOT EXCEED WORK LOAD LIMIT!

Grade 30 Long Link Mooring Chain

Long-link mooring chain is used for mooring and anchoring docks, floats, and buoys where shackle compatibility is required. The extra-long link design allows shackles to pass directly through the chain, making it suitable for general purpose, lashing, and light-duty mooring applications.
Hot-dip galvanized finish for corrosion resistance in marine environments.





Mooring Chain	Nominal Dimension Inches		B/Smin (lbs)	Footage	Weight 100 ft	Product Code
Size	A	B				
Full Drums						
1/2"	3.23	1.02	18,000	100	230	38990032
5/8”	3.74	.94	27,600	100		38990040
3/4"	4.92	1.45	42,400	100	480	38990048
1"	4.15	2	71,600	100	860	38990100

Material: Low Carbon Steel Bright or Hot Dip Galvanized
Finish: Hot-Dipped Galvanized
Packing : 100 ft. shots
500 ft. Per Pallet

Sold in 100 ft quantities only !

WARNING : NEVER EXCEED WORKING LOAD LIMITS!
Do not use Grade 30 or 40 chains for overhead lifting applications.

Passing Link Chain

Links of chain designed so the chain will not kink or knot.
Used generally for tie out purposes on livestock.





Passing Chain Size	Nominal Dimension Inches A	B	C	WLL (lbs)	Footage	Weight 100 ft	Product Code
2/0	0.189	0.875	0.470	450	100	32	38250020
4/0	0.210	0.875	0.500	600	100	41	

Material: Low Carbon Steel, Not Heat Treated
Finish: Zinc Plated.
Packing: 100ft cartons

WARNING: DO NOT USE FOR OVERHEAD LIFTING!
DO NOT EXCEED WORK LOAD LIMIT!

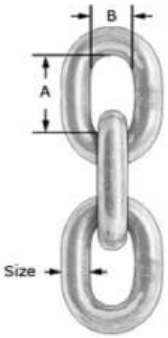
"No-Crack" Security Chain

Built for high-risk theft environments. No-Crack Security Chain is manufactured from quenched and tempered alloy steel and fully through-hardened to deliver superior resistance to cutting, sawing, and prying compared to traditional case-hardened chain. The square-link profile increases contact resistance against bolt cutters and abrasive tools.

Protected with a corrosion-resistant electro-galvanized finish, this chain is suited for long-term outdoor exposure. Designed to secure high-value assets including construction equipment, trailers, ATVs, and watercraft. Available as chain only or as complete lock-and-chain kits.



Security Chain	Nominal Dimension Inches		WLL (lbs)	Footage	Weight 100 ft	Product Code
Dia	A	B				
3/8"	1.490	0.620	N/A	100	160	38400024



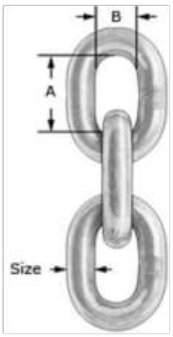
Hardness: Through hardened
Finish: Electro Galvanized

WARNING: DO NOT USE FOR OVERHEAD LIFTING!

T-316 Stainless Steel Chain

A most economic and commonly used chain for industrial and marine application where corrosion is a concern. Due to particular metallurgical structure of base material it also resists high temperature.





T-316 S.S. Chain	Nominal Dimension Inches		WLL (lbs)	Footage	Weight 100 ft	Product Code
Size	A	B				
Full Drums						
1/8"	0.93	0.28	375	1,000	18	38160008
3/16"	0.94	0.38	930	500	37	38160012
1/4"	1.24	0.47	1,570	400	63	38160016
5/16"	1.26	0.50	2,400	200	93	38160020
3/8"	1.38	0.57	3,550	150	142	38160024
1/2"	1.79	0.72	6,500	100	240	38160032

Material	T-316 Stainless Steel
Finish	Polished

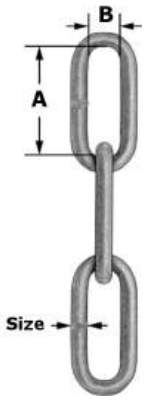
WARNING: **NEVER EXCEED WORKING LOAD LIMITS! DO NOT USE STAINLESS STEEL CHAIN FOR OVERHEAD LIFTING AND WHERE FAILURE MAY CAUSE DAMAGE TO LIFE OR PROPERTY!**

Studio Chain

Used generally for Hanging Theatrical Lights and Fixtures.
The links are elongated allowing a shackle to be used in the middle of the link.



Studio Chain	Nominal Dimension Inches			WLL (lbs)	Footage	Weight 100 ft	Product Code
	A	B	Size				
6/0	1.50	.281	0.46	2,000	100/1000	63	38029960



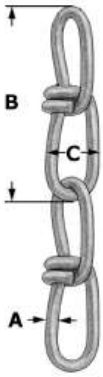
Material: Low Carbon Steel, Not Heat Treated
Finish: Self color with rust inhibitor
Packing: 100 ft cartons or 1000 ft drums
Design Factor 4 : 1 In accordance with NACM Specifications

WARNING: DO NOT USE FOR OVERHEAD LIFTING!
DO NOT EXCEED WORK LOAD LIMIT!

Double Loop (Tenso, Lion) Chain

A weldless chain that combines strength, flexibility, light weight and neat appearance. A general utility chain for hardware and manufacturing applications such as playground, gym equipment hanging fixtures, tie out chains, etc.





Tenso Chain Size	Nominal Dimension Inches A	B	C	WLL (lbs)	Footage	Weight 100 ft	Product Code
Carton							
# 4	0.071	1.142	0.197	70	100	6	383000041
# 3	0.079	1.280	0.236	90	100	6	383000031
# 2	0.091	1.969	0.276	115	100	9	38300002
# 1	0.106	1.811	0.295	155	100	10	38300001
1/0	0.118	2.126	0.315	200	100	13	383001001
2/0	0.134	2.480	0.345	255	100	17	383002001
3/0	0.150	2.677	0.433	305	100	20	383003001
Reel							
# 4	0.071	1.142	0.197	70	250	6	38300004
# 3	0.079	1.280	0.236	90	200	6	38300003
# 2	0.091	1.969	0.276	115	200	9	38300002
# 1	0.106	1.811	0.295	155	100	10	38300001
1/0	0.118	2.126	0.315	200	200	13	38300100
2/0	0.134	2.480	0.345	255	175	17	38300200
3/0	0.150	2.677	0.433	305	150	20	38300300
4/0	0.161	2.835	0.512	365	70	25	38300400

Material: Low Carbon Steel, Not Heat Treated
Finish: Zinc Plated, White or Black polymer, other finishes available on request

WARNING: DO NOT USE FOR OVERHEAD LIFTING!
DO NOT EXCEED WORK LOAD LIMIT!

18" Chain Tails - Grade 70

Grade 70 chain tails deliver compact, high-strength performance for load securement and trailer tie-down applications. Manufactured from heat-treated alloy steel, these 18" lengths offer excellent durability and abrasion resistance when used with compatible hooks and hardware. Ideal for transport environments where strength, reliability, and fast securement matter.



Chain Size	Model	Web Width	WLL (lbs)	Product Code
5/16"	S-925	2"	3,335	37054010
5/16"	S-928	3"	5,500	37055000
3/8"	S-926	3"	6,000	37054011
3/8"	S-927	4"	6,600	37054012

Material	Grade 70 Chain, Alloy Hooks, Forged Alloy Delta Ring
Finish	Yellow Chromate
Design Factor	3 : 1

WARNING:	Never exceed working load limits Do not use grade 70 chains for lifting applications

Trailer Safety Chain Assembly

Safety chain is a secondary connection between the towing vehicle and trailer, consisting of link chain and approved attachment hardware.

Its purpose is to maintain a temporary connection if the primary coupling separates, allowing the vehicle and trailer to be brought to a controlled stop. Safety chain is not intended to maintain vehicle control or prevent damage in the event of loss of control, rollover, jackknife, or collision.





Chain Class	Chain Size	Length (ft)	Weight (lbs)	GVW (lbs)	Product Code
3	1/4"	3	2.58	5,000	
3	1/4"	4	3.33	5,000	38061016
3	1/4"	5	3.92	5,000	
3	1/4"	6	4.73	5,000	

Other lengths and Classes of chain available upon request

Material	Class III 1/4" Proof Coil Chain
Finish	Zinc Plated
" S " Hook	7/16" Patented Latch kit

Chain can be supplied in bulk or as assemblies.

WARNING:	Never exceed working load limits Do not use for lifting applications

Grade 70 Tie Down Assemblies

Grade 70 tie-down assemblies are manufactured from transport-grade chain, cut and assembled to standardized lengths for consistent performance.

Each assembly is supplied with hooks on both ends, properly tagged for compliance, and ready for immediate use. Packaged in durable pails for easy storage, handling, and jobsite convenience. Designed for demanding transport and load securement applications where reliability matters.



Cain Size	Length (ft)	Weight (lbs)	WLL (lbs)	Product Code
5/16"	16	16.00	4,700	38072016
5/16"	20	20.00	4,700	38072020
5/16"	25	25.00	4,700	38072025
3/8"	10	16.00	6,600	38072410
3/8"	12	19.00	6,600	38072412
3/8"	14	22.00	6,600	38072414
3/8"	16	25.00	6,600	38072416
3/8"	20	31.00	6,600	38072420
3/8"	25	38.00	6,600	38072424



Material	Grade 70 Chain, Alloy Hooks
Finish	Yellow Chromate
Design Factor	4 : 1 In accordance with NACM Specifications

Chain can be supplied in bulk or as tie down assemblies.

WARNING:	Never exceed working load limits Do not use grade 70 chains for lifting applications

Chain Care, Inspection, and Service Life

Chain performance and service life depend on proper selection, handling, and ongoing inspection. Regardless of grade, all chain used for lifting, rigging, or load securement should be routinely inspected and maintained to ensure safe operation.

Before each use, chain should be visually inspected for wear, deformation, cracks, nicks, corrosion, or heat damage. Any chain showing signs of stretching, bent or twisted links, gouging, or excessive wear must be removed from service immediately.

Chain must never be subjected to loads exceeding its rated working load limit. Shock loading, side loading, and improper hitching can significantly reduce chain strength, even if no visible damage is present. Exposure to extreme heat, welding arc strike, or chemical environments may also compromise chain integrity and requires removal from service.

To extend service life, chain should be kept clean, lightly lubricated when appropriate, and stored in a dry environment when not in use. Do not attempt to repair damaged chain by welding, heating, bending, or straightening.

Proper grade selection, correct application, and regular inspection are critical to safe chain use. When in doubt, remove the chain from service and consult a qualified lifting or rigging professional.

CHAIN



General Warnings

All Vanguard rigging products are sold with the express understanding that both the purchaser and the end user are thoroughly familiar with the safe, proper and acceptable applications of the products.
It is the responsibility of the end user to establish proper safety programs and to provide thorough training for all personnel prior to use. The training programs must meet any federal/provincial/state/local code requirements, existing plant/site safety rules and regulations, and all instructions provided in the applicable section of this catalogue.
Product failure can occur due to abuse, misapplication, lack of maintenance, use by unqualified personnel and improper inspection prior to use. **Any failure of rigging products may result in property damage, personal injury and even death!!!!**

Standards

There are numerous government and industrial standards that cover rigging products. This catalogue makes no attempt to reference all of them; it references to the standards that are most frequently asked about.

Working Load Limit (WLL) – Safe Working Load (SWL)

The Working Load Limits shown in this catalogue are applicable to products that are new or "in as new" condition. The Working Load Limits ratings refer to the maximum amount of force or load that the rigging product can carry under normal working/environmental conditions. The Working Load Limits and Design Factory can be affected by wear, misuse, overloading, shock loading, side loading, corrosion, deformation, product alteration and other use conditions. Inspection of rigging products prior to use is required to determine whether the product continues to meet the assigned WLL provided in this catalogue, should be used at a reduced rating or removed from service.

The WLL rating must never be exceeded!!!!



General information disclaimer

The contents contained in this publication are for general information only.

Although every effort has been made to assure the accuracy of the information at time of print, persons who use the Catalog should note that ratings, laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication.

Vanguard Steel Ltd. assumes no liability for Catalog errors or omissions.

It is the responsibility of each person who uses this Catalog to ascertain current information that pertains to the individual lifting program, particularly with regard to satisfactory safety compliance requirements. Check your Provincial and Local safety standards before any operation or lift is attempted.

It is the responsibility of the person/operator to frequently search for updated reference information.

Do not use lesser than matching Grade components for any lifting application !
Do not use Slings, Chains or Accessories with signs of wear or deformation !

Inspections - Each day before being used, the sling and all fastenings and attachments shall be inspected for damage or defects by a competent person designated by the employer. Additional inspections shall be performed during sling use where service conditions warrant. Damaged or defective slings shall be immediately removed from service.