



WARNING

Can fail if damaged, misused, or overloaded.
Use only if trained.

DEATH or INJURY can occur from improper use or care.

Inspect before use and observe rated load to avoid death or personal injury.

Pad edges of load to avoid damage to the wire rope.

If rated load tag and manufacturer's name are missing or illegible, remove the sling from service.

RATED LOAD = RATED CAPACITY = WORKING LOAD LIMIT



WIRE ROPE SLINGS



Instructions for inspection use, care, and repair

Inspection:

- Before each use: Inspect for broken wires, severe localized abrasions or scraping, kinking, crushing, bird caging, heat, corrosion, or other damage to rope structure.
- Inspect the end attachments and fittings for cracks, wear or deformation, hooks with twists or a throat opening increase or severe corrosion. Inspect for broken or missing wires.
- For strand laid and single part slings, no more than ten randomly distributed broken wires in one rope lay, or five broken wires in one strand in one rope lay. For cable laid and braided broken wire inspection criteria, consult the manufacturer. **If this wear or damage is present or if rated load tag is missing or illegible, remove from service and repair or replace sling.**
- If an inspection reveals that such wear or damage is present, replace the sling.
- Frequent inspection is done by the person handling the sling before each use and must include all of the before use items. Periodic inspections are required at least annually for normal service, quarterly or more frequently if in severe service or nearly constant use.
- Periodic inspections are performed by a designated person who records the observed condition and determines when further use would be hazardous.

Use:

- Check weight of load and check tag to confirm that sling is rated adequately for the load (see load angle chart).
- Sling shall not be twisted, tied into knots or joined by knotting.
- Be sure the load cannot cut the sling during the lift by padding corners, edges, protrusions or abrasive surfaces; **use materials of sufficient strength and thickness.**
- Center load on base (bowl) of hook unless hook is designed for point loading.
- Balance, maintain control, and avoid jerking the load.
- Be alert for snagging of load and avoid dragging sling over rough surfaces and from under the load.
- Choker hitch must choke on rope, never on a splice or end fitting.
- Stand clear of load at all times. Persons are not to ride on sling or load.
- For use in abnormal conditions of heat, cold, chemical activity, consult the manufacturer.
- Wire rope slings must be used with compatible fittings, hooks and shackles
- Restrict use to temperatures below 400° F (fiber core wire rope below 180° F) & above -40° F.
- **Important:** A single leg sling with hand tucked splice can unlay and drop the load if allowed to rotate during a lift. Always use a tag line.

Care

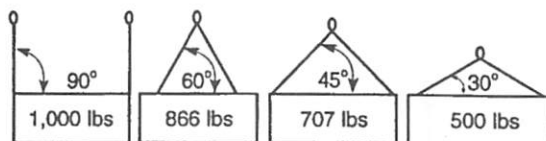
- Store away from possible mechanical damage, corrosion, moisture, dust, grit, and extreme temperatures or kinking.

Repair:

- Any hazardous condition disclosed by an inspection shall require repair or replacement. Repair is not an option

LOAD ANGLE CHART

Angle factor *must* be applied to calculate the reduced sling capacity when lifting force is not at 90° to the plane of the load!



Multiply angle factor x sling's vertical rated load to calculate the reduced capacity at that angle.

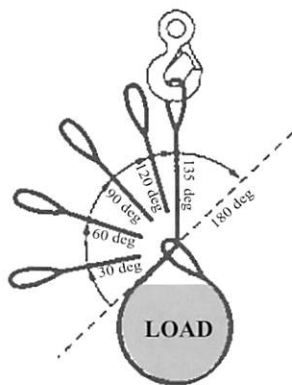
Angle	Factor
90°	1.0000
80°	0.9848
75°	0.9659
70°	0.9397
65°	0.9063
60°	0.8660
55°	0.8192
50°	0.7660
45°	0.7071
40°	0.6248
35°	0.5736
30°	0.5000

Because of the greatly reduced lifting capacity, use extra care when the sling to load angle, also known as the **horizontal** angle, is less than 45° and do not make lifts of less than 30° load angle. Example: A sling with adequate capacity could be broken because of increased tension resulting from angles of less than 30 degrees. When possible, use longer slings to minimize angular tension by increasing the angle.

Choke Angle Effect

Angle of Choke, deg	Rated Capacity, % [Note (1)]
Over 120	100
90 - 120	87
60 - 89	74
30 - 59	62
0 - 29	49

NOTE: (1) Percent of sling rated capacity in a choker hitch.



Rated capacity of sling shall be decreased when D/d ratios (see figure 14) will be smaller than cited in the latest version of ASME B-30.9 Chapter 2. Consult with the sling manufacturer for specific data or refer to the WRTB Wire Rope Sling Users Manual.

GENERAL NOTE:
When D is 25 times the component rope diameter (d) the D/d is expressed as 25/1.

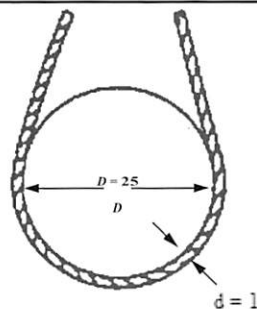


Fig. 14 D/d Ratio



7403 Lockport Pl., Ste B
 Lorton, VA 22079
 (888) 737 5464
 www.iandisling.com

INSPECTION / TEST CERTIFICATE

Date: 10/24/2023

This is to certify that I & I Sling Inc. has subjected the following item(s) to a:

- Visual inspection and/or
 - Proof test as applicable, per ASME: B30.9 B30.10 B30.16 B30.20 B30.21 B30.26
-
- Twin-Path® Roundsling
 - Single-Path Roundsling
 - Synthetic Web Sling
 - Wire Rope Sling
 - Wire Rope Assy.
 - Alloy Chain Sling
 - Hardware
 - Beam
 - Hoist
 - _____

Customer: PATRIOT DEVELOPMENT CORP ID: 116959
 PO Number: SHOP Order #: 1323906

Quantity: 1 Description: 1-1/8IN X 5FT TEA CUP SLING
 Serial #(s): 16989 wt# Ext'd Desc: _____

The proof test applied is 1.25 1.50 2.0 2.5 N/A times the rated capacity.
 The rated capacity per item is: 20,000 lbs at 90 degrees.

CAUTION: Do not exceed the rated capacity! User shall be trained.

Comments: STOCK

The above described item(s) are warranted in material and workmanship of the manufacturer. The Sellers liability is limited to replacing or repairing this item(s) or portion thereof which shall have been returned to it, and which its examination discloses to have been defective. The Seller shall not be responsible for the conditions of the item(s) or any portion thereof, if any repairs, alterations, or heat treatment of the item(s) or any portion thereof, has been made at any place other than the Seller's Service Center.

This warranty is expressly in Lieu of all other warranties expressed or implied and of all other obligations or liabilities of the seller. The seller neither assumes nor authorizes any other person to assume for it any liability in connection with the sale or use of I & I Sling Inc. products. This warranty is specifically subject to the "Definitions, Cautions, and Instructions covering the purchase and use of item(s) as printed on the reverse side of this certificate.

I & I Sling Inc.
 Inspector: *Jack Brown*

WARNING
Definitions, Cautions, and Instructions Governing
The purchase and Use of Slings

WORKING LOAD LIMIT OR RATED CAPACITY: The "working load limit" "rated capacity" is the maximum load which at any time or under any conditions should ever be applied to the sling even when it is new and in the same condition it was when it left the Service Center, and when the load is evenly applied only in direct tension.

PROOF "TEST": The "Proof Test" is a term designating the tensile test applied to a sling or portion thereof, during or subsequent to the process of manufacture. For the sole purpose detecting defects in the material or manufacture. It is the load in pounds which the sling withstood in the conditions and at the time it left the Service Center, under a test which the load has been applied in direct tension and at a uniform rate of speed on a standard proof testing machine. The actual loads applied vary with the size and type of the device being tested but are sufficient to provide the necessary "proof test."

NOMINAL BREAKING STRENGTH – WIRE ROPE, NYLON, CHAIN, MANILA AND SYNTHETICS. The nominal breaking strength of a sling is based on the nominal breaking strength of the rope, mesh, or webbing used in the sling or attachments: and to all applicable factors which effect sling strength. Such factors include:

1. Splicing, sewing or method of end termination or attachment used.
2. Number of parts or rope in sling.
3. Type of hitch: eg. vertical, choker, basket, etc.
4. Radius of curvature around which sling is bent.

CAUTIONS: The terms "working load limit" or "Rated Capacity", "proof test", and "average ultimate load" or "nominal breaking strength" contain no implication of what load a sling will withstand if any of the basic factors are changed or if it suffers abuse. Such changes will lessen the load that the sling will withstand. Some examples of such changes and abuse are as follows:

Cutting and abrasion
Twisting, Knotting, or kinking of sling legs,
Obvious damage or disfigurement,
Deterioration of the sling by strain, usage, weathering, corrosion, or lapse of time,
Used to carry an excessive load,
Sharp acceleration or deceleration of the load, jerking, or vibratory fatigue,
Increasing sling angles too far from the vertical due to load size hitch, or sling length.

Purchaser will note that all the above "Cautions" set forth apply to sling attachments as well as the rest of the sling body.

INSTRUCTIONS REGARDING ATTACHMENTS: Where attachments such as master links or hooks are used as an integral part of the sling sustaining loads, such attachments are a part of the determination of the "working load limit" or "capacity" of the sling.

If any changes, additions or alterations are made at any place other than the Seller's Service Center, then the seller shall not be responsible for the sling.

WARNING

Inspect before use. Follow OSHA, ASME and Manufacturers Guidelines. Protect lifting device from misuse. Use by untrained persons is hazardous. Improper use will result in serious injury or death. Do not exceed rated capacity. This product will fail if damaged, abused, misused, overused or improperly maintained.



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INSPECTION / TEST CERTIFICATE

Date: 10/31/2023

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- Visual inspection and/or
Proof test as applicable, per ASME: B30.9 B30.10 B30.16 B30.20 B30.21 B30.26

- Twin-Path Roundslings, Single-Path Roundslings, Synthetic Web Slings, Wire Rope Slings, Wire Rope Assys, Alloy Chain Slings, Hardware, Beam, Hoist

Customer: PATRIOT DEVELOPMENT CORP ID: 116959
PO Number: SHOP Order #: 1324356

Quantity: 2 Description: 1IN X 5FT TEA CUP SLING
Serial #(s): 3WR10312301, 3WR10312302 Ext'd Desc: WITH SLIP ON THIMBLE - 17,000LBS. VRC.

The proof test applied is 1.25 1.50 2.0 2.5 N/A times the rated capacity.
The rated capacity per item is: 17,000 lbs at 90 degrees.

CAUTION: Do not exceed the rated capacity! User shall be trained.

Comments: [Empty box for handwritten notes]

The above described item(s) are warranted in material and workmanship of the manufacturer. The Sellers liability is limited to replacing or repairing this item(s) or portion thereof which shall have been returned to it, and which its examination discloses to have been defective. The Seller shall not be responsible for the conditions of the item(s) or any portion thereof, if any repairs, alterations, or heat treatment of the item(s) or any portion thereof, has been made at any place other than the Seller's Service Center.

This warranty is expressly in Lieu of all other warranties expressed or implied and of all other obligations or liabilities of the seller. The seller neither assumes nor authorizes any other person to assume for it any liability in connection with the sale or use of I & I Sling Inc. products. This warranty is specifically subject to the "Definitions, Cautions, and Instructions covering the purchase and use of item(s) as printed on the reverse side of this certificate.

I & I Sling Inc.
Inspector: Jack W. Brewer

WARNING
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PROOF "TEST": The "Proof Test" is a term designating the tensile test applied to a sling or portion thereof, during or subsequent to the process of manufacture. For the sole purpose detecting defects in the material or manufacture. It is the load in pounds which the sling withstood in the conditions and at the time it left the Service Center, under a test which the load has been applied in direct tension and at a uniform rate of speed on a standard proof testing machine. The actual loads applied vary with the size and type of the device being tested but are sufficient to provide the necessary "proof test."

NOMINAL BREAKING STRENGTH – WIRE ROPE, NYLON, CHAIN, MANILA AND SYNTHETICS. The nominal breaking strength of a sling is based on the nominal breaking strength of the rope, mesh, or webbing used in the sling or attachments: and to all applicable factors which effect sling strength. Such factors include:

1. Splicing, sewing or method of end termination or attachment used.
2. Number of parts or rope in sling.
3. Type of hitch: eg. vertical, choker, basket, etc.
4. Radius of curvature around which sling is bent.

CAUTIONS: The terms "working load limit" or "Rated Capacity", "proof test", and "average ultimate load" or "nominal breaking strength" contain no implication of what load a sling will withstand if any of the basic factors are changed or if it suffers abuse. Such changes will lessen the load that the sling will withstand. Some examples of such changes and abuse are as follows:

Cutting and abrasion

Twisting, Knotting, or kinking of sling legs,

Obvious damage or disfigurement,

Deterioration of the sling by strain, usage, weathering, corrosion, or lapse of time,

Used to carry an excessive load,

Sharp acceleration or deceleration of the load, jerking, or vibratory fatigue,

Increasing sling angles too far from the vertical due to load size hitch, or sling length.

Purchaser will note that all the above "Cautions" set forth apply to sling attachments as well as the rest of the sling body.

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- Twin-Path Roundslings, Single-Path Roundslings, Synthetic Web Slings, Wire Rope Slings, Wire Rope Assys, Alloy Chain Slings, Hardware, Beams, Hoists

Customer: PATRIOT DEVELOPMENT CORP ID: 116959
PO Number: SHOP Order #: 1323766

Quantity: 2 Description: 1IN X 5 FT FE SLING
Serial #(s): 3WR10202302, 3WR10202303 Ext'd Desc: 1IN X 5FT FE SLING W/ SLIP ON THIMBLE UP TOP & REGULAR THIMBLE IN BOTTOM EYE - 19,600LBS. VRC.

The proof test applied is 1.25 1.50 2.0 2.5 N/A times the rated capacity.
The rated capacity per item is: 19,600 lbs at 90 degrees.

CAUTION: Do not exceed the rated capacity! User shall be trained.

Comments: [Empty box for handwritten notes]

The above described item(s) are warranted in material and workmanship of the manufacturer. The Sellers liability is limited to replacing or repairing this item(s) or portion thereof which shall have been returned to it, and which its examination discloses to have been defective.

This warranty is expressly in Lieu of all other warranties expressed or implied and of all other obligations or liabilities of the seller. The seller neither assumes nor authorizes any other person to assume for it any liability in connection with the sale or use of I & I Sling Inc. products.

I & I Sling Inc.
Inspector: Jack W Brewer

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