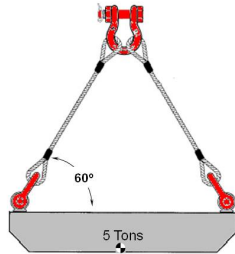
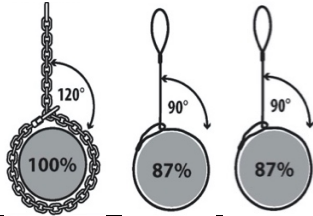


The objective of this Tool Box Talk is that it can be used as part of a safety meeting that focuses on the use of Wire Rope Slings in the workplace. The ASME B30.9 standard has been referenced when compiling this document as this is the most recognized standard used in North America for selection, inspection, cautions to personnel, effects of environment, and rigging practices of slings.

Ask members of the meeting to give answers to the following, encouraging participation whether their answers are right or wrong.

LEGISLATION	ANSWER
1) WHAT STANDARDS SHOULD THE SLING COMPLY WITH?	ASME B30.9 standard.
2) WHAT OTHER INFORMATION MUST BE REFERENCED?	Manufacturers Specifications
3) HOW OFTEN DO PERIODIC INSPECTIONS NEED TO BE CARRIED OUT?	At least annually (ASME), but state what your company rules are.
MARKINGS	ANSWER
4) WHAT 4 ITEMS ARE REQUIRED TO BE MARKED ON THE SLING?	1. Manufacturer, 2. Rated load, 3. Size, 4. Number of legs
APPLICATION	ANSWER
5) WHAT ARE THE TEMPERATURE RANGES FOR THE SLING?	Minus 40 to plus 204 Celsius.
6) NAME SOME REASONS WHY THE SLING MAY HAVE TO BE REMOVED FROM SERVICE?	1. Missing or illegible identification, 2. Broken Wires, 3. Severe localized abrasion or scraping, 4. Kinking, crushing, bird-caging, or other damage to the rope structure, 5. Evidence of heat damage, 6. Fittings that are cracked, deformed or worn, 7. Severe corrosion of the rope or fittings.
7) ON A BRIDAL (MULTI-LEGGED) SLING WHAT HORIZONTAL ANGLE IS THE RATED LOAD NORMALLY BASED ON?	<p>It is generally based on the horizontal sling angle of 60 degrees</p> 
8) IF THE SLING IS USED AROUND AN EDGE OR CORNER WHAT MUST BE USED TO PROTECT THE SLING?	Softeners must be used, ask what is good to use as softeners and what is not good.
9) WHAT HAPPENS TO THE RATED LOAD IF THE SLINGS BASKET HITCH IS NOT USED AT 90°?	When the hitch angle is less than 90 degrees the rated load reduces. (15% @ 60°, 30% @ 45° and 50% @ 30°)

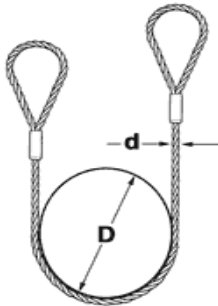
10) WHAT HAPPENS TO THE RATED LOAD IF THE SLINGS CHOKE HITCH IS TIGHTENED HARD AGAINST THE LOAD?



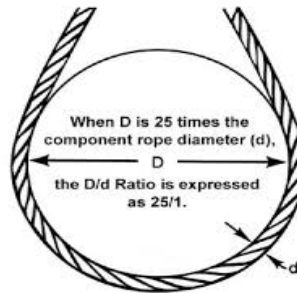
When the hitch angle is less than 120 degrees the rated load reduces.

Choker hitch rated capacity adjustment	
Angle of choke in degrees	Rated capacity
Over 120	100%
90 - 120	87%
60 - 89	74%
30 - 59	62%
0 - 29	49%

11) WHAT IS THE RECOMMENDED D-d RATIO FOR A WIRE ROPE SLING?



25 and above, if less the sling will have a reduced rated load.



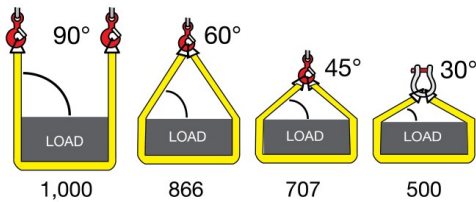
D/d	Efficiency
25	100%
20	92%
10	86%
5	75%
2	65%
1	50%

12) WHAT IS THE LOWEST RECOMMENDED HORIZONTAL SLING ANGLE TO USE THE SLING AT?

30 Degrees

13) HOW ARE SLINGS AFFECTED BY DIFFERENT ANGLES AND HITCHES?

Check with the manufacturers' charts for different configurations.



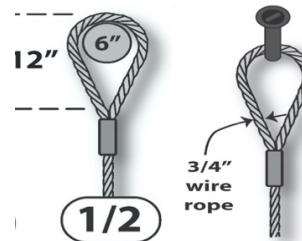
LOAD ANGLE CHART
Angle factor must be applied to calculate the **reduced sling capacity** when lifting force is not at 90° to the plane of the load!

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

Angle	Factor	Angle	Factor	Angle	Factor	Angle	Factor
90°	1.0000	70°	0.9397	55°	0.8192	40°	0.6428
80°	0.9848	65°	0.9063	50°	0.7660	35°	0.5736
75°	0.9659	60°	0.8660	45°	0.7071	30°	0.5000

14) WHAT ARE THE RESTRICTIONS ON OBJECTS USED WITHIN THE SLING EYE?

No wider than half the eye length, no smaller than the sling diameter



15) WHERE IS THE BEST PLACE TO STORE SLING?

Where they will not be affected by mechanical damage, corrosion, moisture, or adverse temperatures.