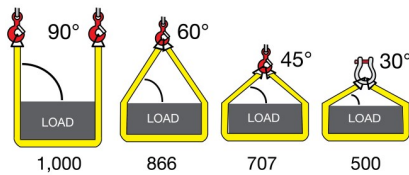
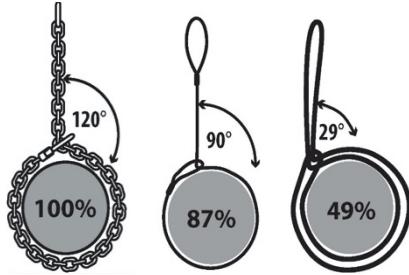


The objective of this Tool Box Talk is that it can be used as part of a safety meeting that focuses on the use of Synthetic Webbing Slings in the workplace. The ASME B30.9 standard has been referenced when compiling this document as this is the most recognized standard used in North America for selection, 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 5 ITEMS ARE REQUIRED TO BE MARKED ON THE SLING?	1. Manufacturer, 2. Code or Stock Number, 3. Rated load, 4. Material, 4. Number of legs
APPLICATION	ANSWER
5) WHAT ARE THE TEMPERATURE RANGES FOR THE SLING?	Minus 40 to plus 90 Celsius.
6) NAME SOME REASONS WHY THE SLING MAY HAVE TO BE REMOVED FROM SERVICE?	1. Missing or illegible identification, 2. Acid or caustic burns, 3. Melting or charring, 4. Holes, tears, cuts or snags, 5. Broken or worn stitching, 6. Excessive abrasive wear, 7. Knots, 8. Chemical or Ultraviolet damage, 9. Fittings that are pitted, corroded, cracked, bent, twisted, gouged, or broken.
7) ON A BRIDAL (MULTI-LEGGED) SLING WHAT HORIZONTAL ANGLE IS THE RATED LOAD NORMALLY BASED ON?	It is generally based on the horizontal sling angle of 60°
8) IF THE SLING IS USED AROUND AN EDGE OR CORNER WHAT MUST BE USED TO PROTECT THE SLING?	Softeners, 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°?	<p>When the hitch angle is less than 90 degrees the rated load reduces. (15% @ 60°, 30% @ 45°, AND 50% @ 30°)</p> 

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



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

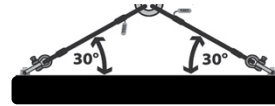
Choker hitch rated capacity adjustment	
Angle of choke in degrees	Rated capacity
Over 120	100%
90 - 120	87%
60 - 89	74%
30 - 59	62%
0 - 29	49%

11) HOW ARE SLINGS AFFECTED BY MOISTURE?

Water absorption can decrease the strength of Nylon Slings by as much as 15% although its strength will return when the sling dries completely. Polyester slings are recommended in wet environments.

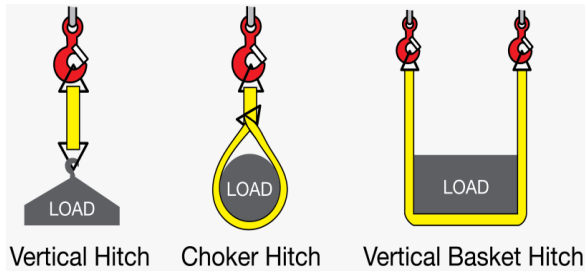
12) WHAT IS THE LOWEST RECOMMENDED HORIZONTAL SLING ANGLE TO USE THE SLING?

30 Degrees



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

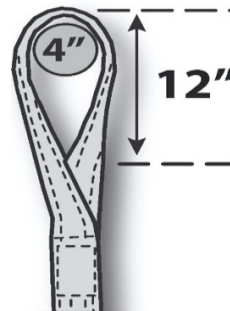
Check with the manufacturers' charts for different configurations.



HEAVY DUTY	EE2-9xx 2-ply, Class 7 EE Heavy duty					
	Vertical	Choker	90°	2-Leg or Basket		
				60°	45°	30°
1"	3,100	2,480	6,200	5,400	4,400	3,100
1 1/2"	4,700	3,760	9,400	8,100	6,600	4,700
1 3/4"	5,400	4,320	10,800	9,400	7,600	5,400
2"	6,200	4,960	12,400	10,700	8,800	6,200
3"	8,800	7,040	17,600	15,200	12,400	8,800
4"	11,000	8,800	22,000	19,100	15,600	11,000
5"	13,700	10,960	27,400	23,700	19,400	13,700
6"	16,500	13,200	33,000	28,600	23,000	16,500
8"	22,750	18,200	42,350	36,700	29,900	22,750
10"	28,400	22,720	52,900	45,800	37,400	28,400
12"	34,100	27,280	63,500	55,000	44,900	34,100

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

No wider than one third the eye length.



15) WHERE IS THE BEST PLACE TO STORE SLING?

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

16) HOW ARE THE SLINGS AFFECTED BY CHEMICALS?

Nylon is resistant to many alkalis and polyester is resistant to many acids, but the worker must check with the manufacturer for specific information.