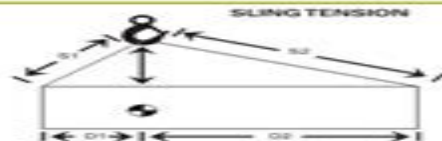


HORIZONTAL SLING ANGLES OF LESS THAN 30 DEGREES ARE NOT RECOMMENDED. REFER TO ANSI B30.9 FOR FULL INFORMATION.

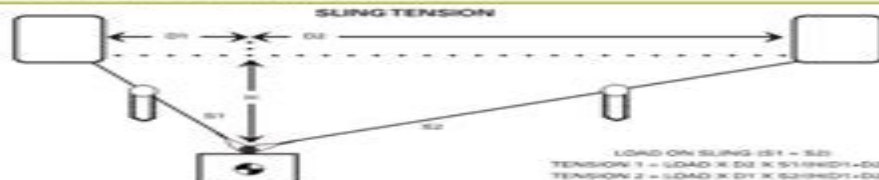


LOAD ANGLE FACTORS

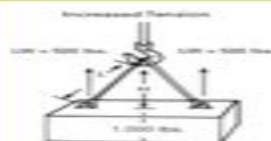
HORIZONTAL SLING ANGLE (A) DEGREE	LOAD ANGLE FACTOR = L/H
90	1.000
60	1.155
50	1.305
45	1.414
30	2.000



LOAD ON SLING (S1 = S2)
TENSION 1 = LOAD X D2 X S1/(H+D1+D2)
TENSION 2 = LOAD X D1 X S2/(H+D1+D2)



LOAD ON SLING (S1 = S2)
TENSION 1 = LOAD X D2 X S1/(H+D1+D2)
TENSION 2 = LOAD X D1 X S2/(H+D1+D2)

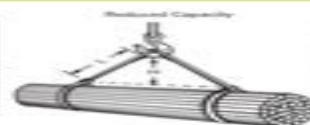


Example:
Load weight = 1,000 lbs.
Rigging - 2 slings in vertical hitch
Lifting Weight 5,000 lbs per sling = 500 lbs.
Measured Length (SL) = 10 ft.
Measured Height (H) = 8 ft.
Tension Factor (TF) = 10 SL / H
Allowable Vertical Rated Capacity (required for this lift)
500 SLVH x 2.0 (TF) = 1,000 lbs. per sling

Effect of Angle Chart

Tension Factor (TF)	Angle From Horizontal	Reduction Factor (RF)
1.000	90°	1.000
1.155	60°	0.866
1.414	45°	0.707
2.000	30°	0.500

Sling capacity decreases as the angle from horizontal decreases. Sling angles of less than 30° are not recommended.



Example:
Vertical Choker rating of each sling = 6,000 lbs.
Measured Length (SL) = 8 ft.
Measured Height (H) = 4 ft.
Reduction Factor (RF) = 4 ft / 8 ft = 0.5
Reduced sling rating in this configuration = 3,000 lbs.
(60% = 6,000 lbs. x 0.60 = 3,600 lbs. of sling capacity per sling)

BASKET HITCH

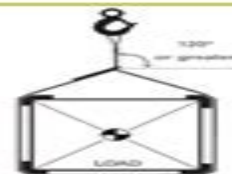


BASKET HITCH

ANGLE (A)	CAPACITY % OF SINGLE LEG
90	200%
60	170%
45	140%
30	100%

CHOKER HITCH

A CHOKER HITCH HAS 75% OF THE CAPACITY OF A SINGLE LEG WHEN THE CORNERS ARE PROTECTED AND THE ANGLE OF THE CHOKER IS GREATER THAN 120°



CENTER OF GRAVITY AND SLING LOADING

WHEN LIFTING VERTICALLY THE LOAD WILL BE SHARED EQUALLY IF THE CENTER OF GRAVITY IS PLACED EQUALLY BETWEEN THE PICK POINTS.

IF THE WEIGHT OF THE LOAD IS 10,000 LBS., THEN EACH SLING WILL HAVE A LOAD OF 5,000 LBS. AND EACH SHACKLE AND EYEBOLT WILL ALSO HAVE A LOAD OF 5,000 LBS.



WEIGHT = VOLUME X UNIT WEIGHT OF MATERIAL

UNIT WEIGHT STEEL = 490 LBS/FT³
UNIT WEIGHT ALUMINUM = 168 LBS/FT³
UNIT WEIGHT REINFORCED CONCRETE = 150 LBS/FT³
UNIT WEIGHT WOOD (PINE) = 50 LBS/FT³
UNIT WEIGHT WATER = 62 LBS/FT³
UNIT WEIGHT WET SAND AND GRAVEL = 120 LBS/FT³

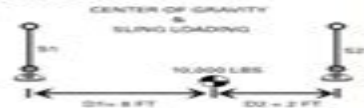
VOLUME OF CUBE = HEIGHT X WIDTH X LENGTH



CENTER OF GRAVITY AND SLING LOADING

WHEN THE CENTER OF GRAVITY IS NOT EQUALLY SPACED BETWEEN THE PICK POINTS, THE SLING AND FITTINGS WILL NOT CARRY AN EQUAL SHARE OF THE LOAD. THE SLING CLOSEST TO THE CENTER OF GRAVITY WILL CARRY THE GREATEST SHARE OF THE LOAD.

SLING 1 = 90 X D1 / (D1 + D2)
SLING 2 = 90 X D2 / (D1 + D2)

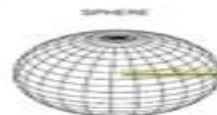


SLING 1 = 10,000 X 2 / (2 + 2) = 5,000 LBS.
SLING 2 = 10,000 X 2 / (2 + 2) = 5,000 LBS.

WEIGHT = VOLUME X UNIT WEIGHT OF MATERIAL

VOLUME OF SPHERE = 4/3 x π x r³

VOLUME OF CYLINDER = π x r² x H



Rigging Card Study Guide

Jiyuan Zhang



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