

Rated Capacity Information

ANGLE / FACTOR COMPARISON	
Angle Degrees	Factor
90	1.0000
85	0.9962
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	0.6528
35	0.5736
30	0.5000
25	0.4226
20	0.3420
15	0.2588

RATED CAPACITY

The rated capacities of the slings in this catalog are given in pounds. Refer to the maximum recommended weight for which the sling is to be used in one of the standard types of lifts as illustrated.

EFFECT OF ANGLE

When slings are used at an angle (i.e. two slings or one sling in a basket attached to only one crane hook), sling capacity is reduced. How much it is reduced depends on the degree of angle. You can determine whether a sling will be rated high enough if you know the angle between the sling leg and the horizontal. Once you know this angle, multiply the sling's rating by the appropriate factor in the table. This will give you the sling's reduced rating.

SLING CAPACITY DECREASES AS THE ANGLE INCREASES

A sling capable of lifting 1,000 lbs. in a 90° vertical basket hitch, can only lift 866 lbs. at a 60° angle, 707 lbs. at a 45° angle, and 500 lbs. at a 30° angle.

TYPES OF HITCHES

The diagram shows three types of hitches: Choker (a single sling looped around a load), Vertical (two slings attached to a single hook), and Basket (two slings attached to a single hook, supporting a load from below).

