

EFFECTS OF SLING ANGLES

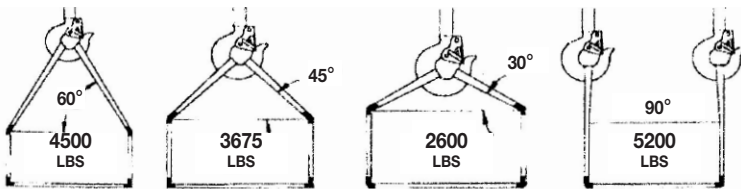
SLING LIFTING CAPACITIES ARE AFFECTED BY ANGLE OF LIFT (ROUND SLING TO LOAD ANGLE) MEASURED FROM THE HORIZONTAL, WHEN USED WITH MULTI-LEGGED ROUND SLINGS OR CHOKER/BASKET HITCHES. TO DETERMINE THE ACTUAL CAPACITY AT A GIVEN ANGLE OF LIFT, MULTIPLY THE ORIGINAL SLING RATING BY THE APPROPRIATE ANGLE FACTOR SHOWN.

EXAMPLE: A SIZE 1 (PURPLE) ROUND SLING IS BEING USED TO LIFT A LOAD IN A BASKET HITCH AT A 60 DEGREE ANGLE. IT HAS A RATED CAPACITY OF 2,600 LBS. IN A VERTICAL HITCH, AND 5,200 LBS. IN A BASKET.

ANSWER: THE ANGLE FACTOR FOR 60 DEGREES IS .866. THE LIFTING CAPACITY FOR THIS SLING AT 60 DEGREES IN A BASKET HITCH IS:

$$(5,200 \text{ LBS.}) \times (.866 \text{ ANGLE FACTOR}) = 4,500 \text{ LBS.}$$

THE FOLLOWING ILLUSTRATES THE EFFECT OF SEVERAL DIFFERENT SLING ANGLES.

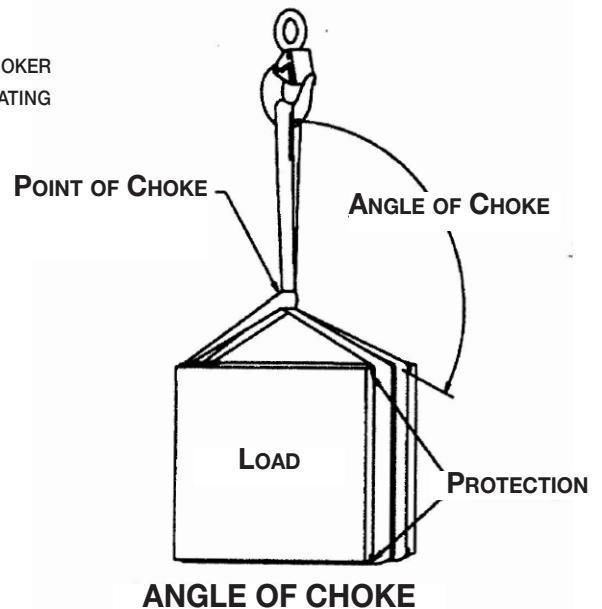


SINGLE ANGLE CHART	
ANGLE IN DEGREES FROM HORIZONTAL	ANGLE FACTOR
90°	1.000
85°	0.996
80°	0.985
75°	0.966
70°	0.940
65°	0.906
60°	0.866
55°	0.819
50°	0.766
45°	0.707
40°	0.643
35°	0.574
30°	0.500

CHOKER HITCH ANGLE

WHEN A CHOKER HITCH IS USED, THE CHOKER HITCH RATING IS AFFECTED BY THE CHOKER ANGLE FOR CHOKE ANGLES OF LESS THAN 120 DEGREES. THE CHOKER HITCH RATING SHOULD BE MULTIPLIED BY THE CHOKE ANGLE FACTOR AS SHOWN BELOW.

CHOKER HITCH ANGLE CHART	
ANGLE OF CHOKE (DEGREES)	CHOKE ANGLE FACTOR
120° - 180°	1.00
105° - 120°	0.93
90° - 105°	0.87



F.O.B. WAREHOUSE