

# DOGGING FORMULAS

## WLL OF A RIGGING CONFIGURATION

$$\text{WLL (IN KGS)} = \text{DIAMETER}^2 \times \text{MF} \times \text{AF} \times \text{RF}$$

(SMALL NUMBER TO LARGE SO MULTIPLY)

## DIA REQUIRED TO LIFT A LOAD

$$\text{DIA (IN KGS)} = \sqrt{\text{LOAD} \div \text{MF} \div \text{AF} \div \text{RF}} = \sqrt{\text{ANS}}$$

(LARGE NUMBER TO SMALL SO DIVIDE)

## MATERIAL FACTORS

FSWR = 8

CHAIN = GRADE  $\times$  0.4

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G80  $\times$  0.4 = 32

G100  $\times$  0.4 = 40

G120  $\times$  0.4 = 48

## ANGLE FACTORS



45° = 1.84



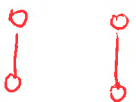
60° = 1.73



90° = 1.41



120° = 1



0° 2 LEGGED = 2


## REEVE FACTORS



DIRECT = 1



ROUND LOAD = 0.75



SQUARE LOAD = 0.5

## WEIGHT OF A CONCRETE PIPE

HOLLOW PIPE $(OD^2 - ID^2) \times 0.79$ $M^2$ OF PIPE	$\frac{1}{4} \pi$	PIPE LENGTH $\times L$ $M^3$ OF PIPE	WEIGHT OF CONCRETE. $\times 2400$ KG OF PIPE.
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