SPREADER BAR

I.D. Nº 26 COLOR OF BAR : RED

LOAD CAPACITY PAINTED ON BAR 7800 LBS. ~~TONS~~.

DATE CAP. & I.D. Nº PAINTED ON BAR 3-1-89

DATE OF LAST LOAD TEST. 3-10-89

(2) 1" Blocks

TEST LOAD WEIGHT 10100 LBS. ~~TONS~~

TEST LOAD % 129%

STRESS CALCULATIONS :

DONE BY N. Bosch

DATE 3-1-89

REMARKS :

I.D. # 26 LOAD: 10,100#
TWO-"A"- BLOCKS RATING: 7,800# 129%
CHARLES PAUL
#6801 3/10/89

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TWO-"A"- BLOCKS RATING: 7,800# 129%
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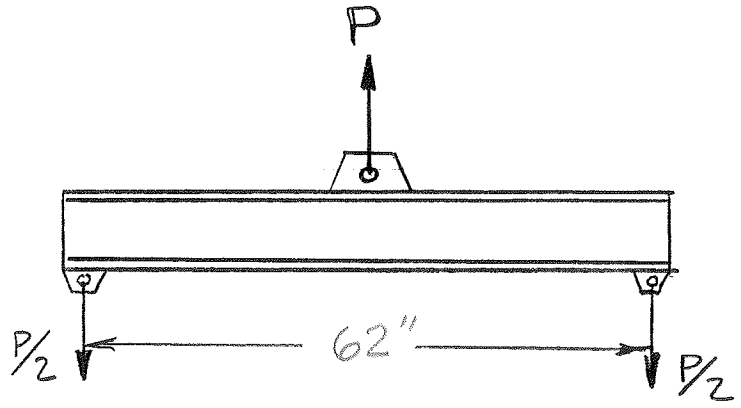
SPREADER BAR Nº 26 PAINT COLOR RED



BEAM SIZE CHANNEL PAIR 6" x 10.5 lb./FT.

$d = 6$

$L = 62$

$d/A_f = 8.59$

$S_x = 5.06 \times 2$

$t_w = .314 \times 2$

$A_w = d \cdot t_w = 3.768$

$M = \frac{PL}{4} = 15.5\,P$

$V = \frac{P}{2}$

BENDING STRESS:

$F_{b\ ALLOW} = 12{,}000$ psi

OR $F_{b\ ALLOW} = \frac{12 \times 10^6}{L \cdot d/A_f} = \frac{12 \times 10^6}{62 \times 8.59} = 22532$ psi. } USE THE LEAST

$\therefore f_{b\ MAX} = \frac{M}{S_x} = 12{,}000 = \frac{15.5\,P}{5.06 \times 2}$ $P = 7835$ LBS.

SHEAR STRESS:

$F_{V\ ALLOW} = \frac{.4\,F_y}{3} = 4800$ psi

$\therefore f_{V\ MAX} = \frac{V}{A_w} = 4800 = \frac{P}{2 \times 3.768}$ $P = 36173$ LBS.

SUMMARY: $\therefore P = 7835$ LBS. ~~TONS~~

SPREADER BAR Nº 26 | N. BOSEK

STEEL