

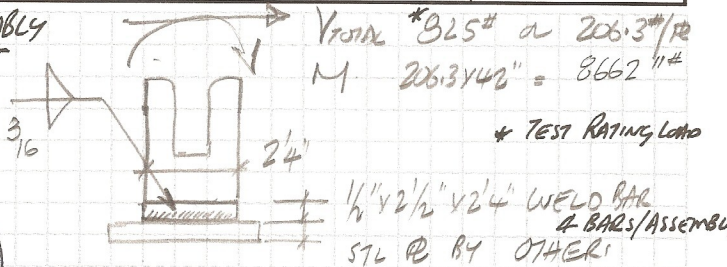


A Structural Engineering Firm  
Professionally Licensed in 48 States

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PROJECT WELD BAR CHECK	SHEET OF SK1
SUBJECT	DATE 8/5/02
CHECKED BY	BY AY

TEST LOAD ASSEMBLY



8/7/02

$$S_{weld} = (2.25/6)^2 = 1.688$$

$$V_v = \frac{2063}{2 \times 2.25} = \frac{458}{1.688} = 271.3$$

$$V_T = \frac{8662}{5/32} = 5418.56$$

$$V_r = \sqrt{458^2 + 5418.56^2} = 5432\text{ psi}$$

3/16" Weld w/ TENSION LOADING

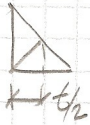
$$\frac{\phi V_n}{e} = 1.392 D \quad D = \# \text{ of } 1/16" \text{ weld}$$

$$= 1.392 \times 3 = 4.176\#$$

$$Weld_{in\ Ten} = 4.176 (1 + 0.5 \sin 90^\circ)$$

$$\phi V_n = 6264\# / 10$$

$$\phi V_n = 6264 > V_r \quad 5132\text{ psi}$$



3/16" - 2 1/4" Two Sided  
Gillet weld IS  
OK