

DOMEX 100XF  
TENSILE STRENGTH 1110000PSI  
YIELD STRENGTH 100000PSI  
YIELD STRENGTH WITH SAFETY FACTOR 3 33333PSI

$$P = -575.103 - 508.986 = -1084.09\#$$

$$M = -3061.24\#$$

$$R \pm MC = St$$

$$\frac{-1084.09\#}{1.50IN^2} \pm \frac{-3061.24\# \cdot 0.94"}{1.11IN^4} = St$$

$$723PSI + 2592PSI = 3315PSI$$

THE SHAPE SHOWN WILL WORK  
WITH A WALL THICKNESS OF 3/16"



$$P = -575.103 - 508.986 = -1084.09\#$$

$$M = -31636.3\#$$

$$R \pm MC = St$$

$$\frac{-1084.09\#}{2.93IN^2} \pm \frac{-31636.3\# \cdot 2.73"}{12.63IN^4} = St$$

$$370PSI + 6838PSI = 7208PSI$$

THE SHAPE SHOWN WILL WORK  
WITH A WALL THICKNESS OF 3/16"



$$P = -575.103 - 508.986 = -1084.09\#$$

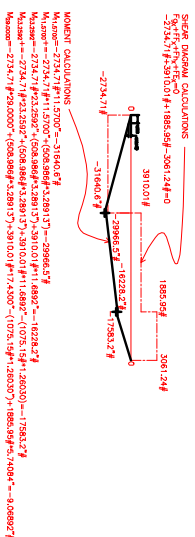
$$M = -2738.74\#$$

$$R \pm MC = St$$

$$\frac{-1084.09\#}{2.25IN^2} \pm \frac{-2738.74\# \cdot 1.85"}{5.14IN^4} = St$$

$$484PSI + 991PSI = 6274PSI$$

THE SHAPE SHOWN WILL WORK  
WITH A WALL THICKNESS OF 3/16"



MOMENT CALCULATIONS  
 $M_{max} = -2734.34 \cdot 1075.15 + \frac{1}{2} \cdot 575.103 \cdot 1075.15^2 = -2966.5\#$   
 $M_{min} = -2734.34 \cdot 1937.09 + \frac{1}{2} \cdot 575.103 \cdot 1937.09^2 = -1628.2\#$   
 $M_{mid} = -2734.34 \cdot 1075.15 + \frac{1}{2} \cdot 575.103 \cdot 1075.15^2 = -2966.5\#$   
 $M_{end} = -2734.34 \cdot 301.24 + \frac{1}{2} \cdot 575.103 \cdot 301.24^2 = -1628.2\#$