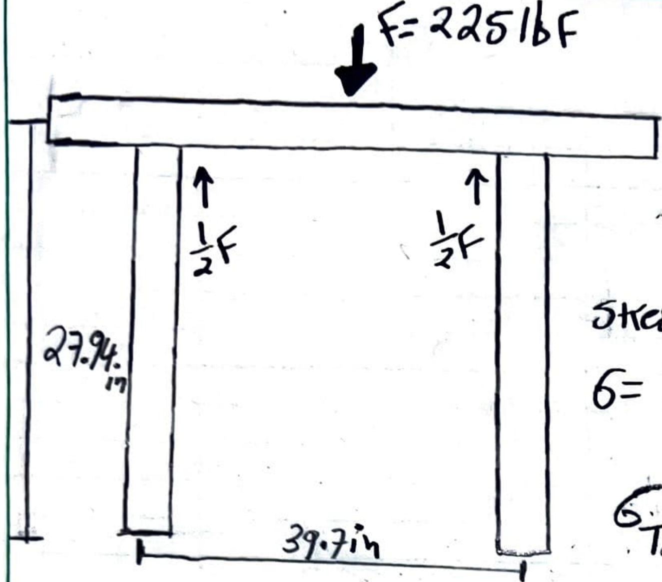


table Top

$M = F(19.85\,in)$

$Max_F = 225\,lbF$

$M_0\,max = 4466.25\,lbf\text{-}in$

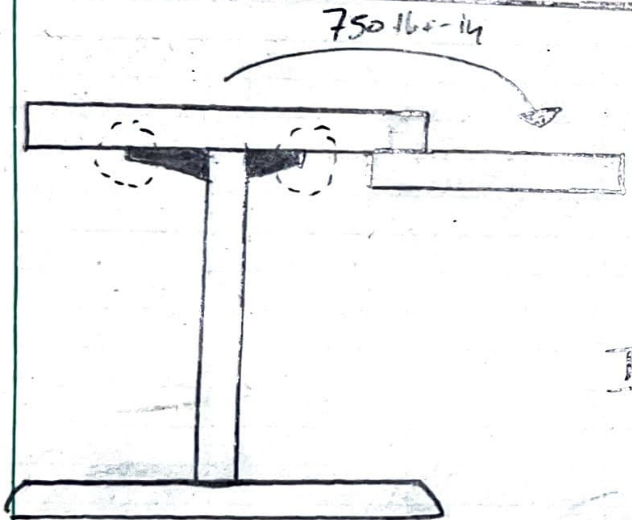
Stress:

$$\sigma = \frac{My}{I} \Rightarrow I = \frac{BH^3}{12} = \frac{24\,in(1\,in)^3}{12} = 2\,in^4$$

$$\sigma_{Tabal\,Top} = \frac{4466.25\,lb\text{-}in \cdot \frac{1}{2}\,in}{2\,in^4}$$

$$\boxed{\sigma = 1116.5\,\frac{lbf}{in^2}\ \text{compressive}}$$

So, the Force on top of the table will be 225lbF and that would create $1116.5\,\frac{lbf}{in^2}$ stress



Bolt Diameters: $\frac{3}{8}$ in

$M = 24\,in\,(150\,lbF)$

$M_{0\,max} = 3000\,lbf\text{-}in$

$M_b = 750\,lbf\text{-}in$

$$I = \frac{\pi\left(\frac{3/8}{2}\right)^4}{4} = 0.0276\,in^4$$

$$\sigma_{Bolts} = \frac{750\,lbf\text{-}in\left(\frac{3/8}{2}\right)}{0.0276\,in^4}$$

$$\boxed{\sigma_{Bolts} = 5093.0604\,lbf}$$

$\frac{3}{8}$ Bolts: rated for about: 7000 lbf

So, theratically testing 750 lbf-in on the very end of the leg bolt slideout holder and that will theoretically create 5093.0604 lbf stress on the bolts and they are rated for ≈ 7000 lbf.