

В технической системе силы измеряются
 $1\text{кГ}=1\text{кгс}=1\text{ДаН}\sim 10\text{Н}$

У американцев

Силы $1\text{ kip}=1000\text{ lb}$

Напряжения

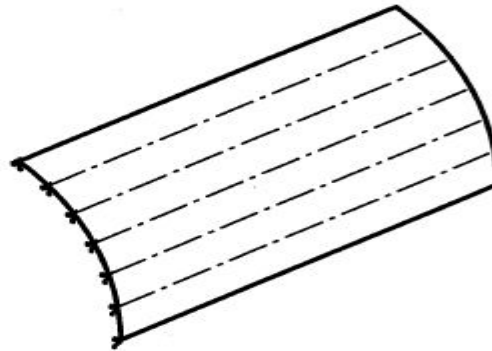
$1\text{ksi}=1\text{ kip}/1\text{ in}^2 = 1000\text{ lb}/1\text{ in}^2 = 1000\text{ psi}$

Недостающие данные принимаете сами.

FREE BODY DIAGRAMS

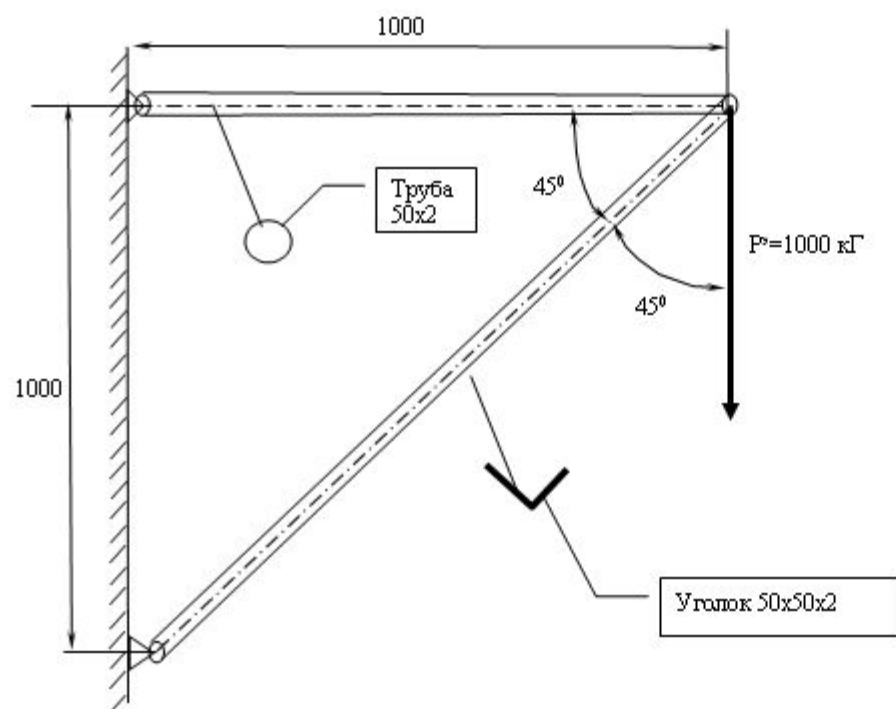


12. For this skin panel show a typical free body diagram for internal pressure and down inertia load. Give formulas used for computing panel loads and stresses. (10 Points)

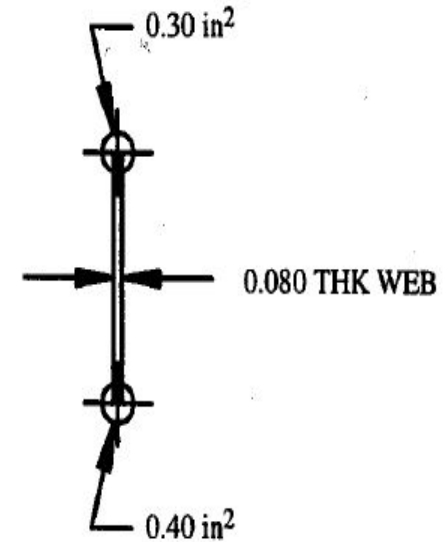
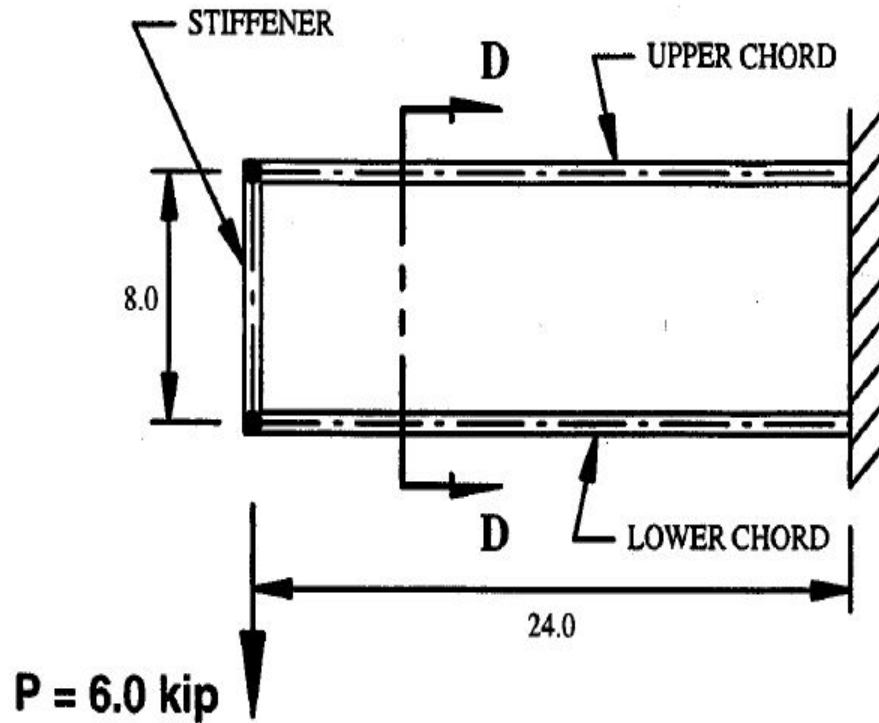


FWD

Определить коэффициенты запасов прочности стержней.
Материал – Д16АТ.



9. Calculate beam reactions -- Show magnitudes and vector directions on sketch. Calculate web shear flow. Show detailed free bodies of stiffeners, web and lower chord. Calculate web shear stress and maximum lower chord stress. (8 Points)



VIEW D-D

Note:

f_t is positive for tension.

All dimensions in inches