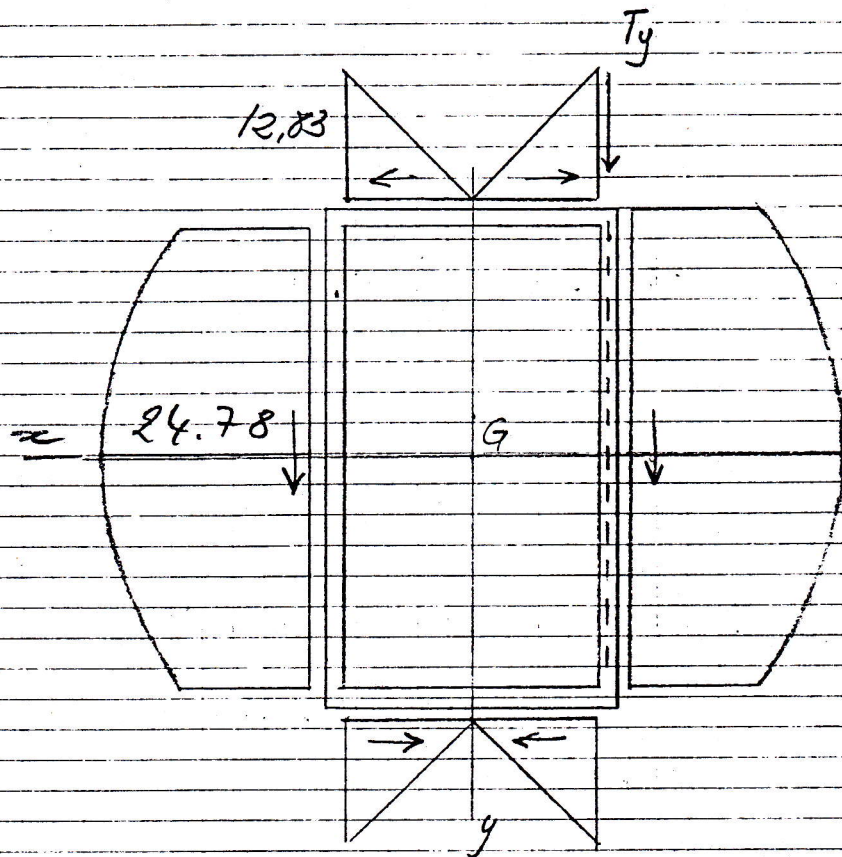


$$\sigma_{id A} = \sqrt{\sigma_{zA}^2 + 3\tau_{zx\max}^2} = \sqrt{885,19^2 + 3,14,7163^2} = 885,55 \text{ kg/cm}^2 < \sigma_{all}$$

$$\sigma_{id B} < \sigma_{all}$$

2.8)



$$\tau_z = \frac{M_z}{2I_z} \quad M_z = 1000 \left( \frac{19,5 - 0,4}{2} \right) = 9350 \text{ kg cm}$$

$$I_z = (19,5 - 0,8) (32,5 - 0,8) = 18,7 \cdot 31,7 = 592,79$$

$$\tau_z = \frac{9350}{2 \cdot 592,79 \cdot 0,8} = 9,85 \text{ kg/cm}^2$$

$$\tau_{zs} = \frac{T_y S_x}{I_z s}$$

$$\tau_{zx\max} = \frac{1000 (19,5 - 0,8 \cdot 2) \cdot 0,8 (32,5/2 - 0,4)}{11052 \cdot 0,8 \cdot 2} = 12,83 \text{ kg/cm}^2$$

$$\tau_{zy\max} = \frac{1000 (17,9 \cdot 0,8 \cdot 15,85 + (32,5/2)^2 \cdot 0,8 \cdot 2)}{11052 \cdot 0,8 \cdot 2} =$$