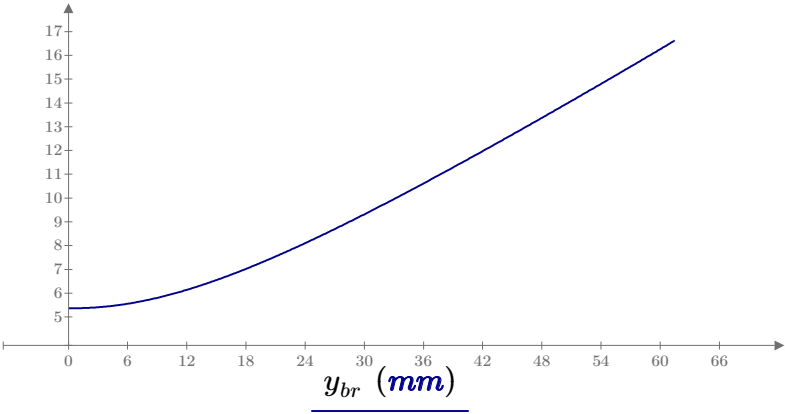$$\sigma_{AA}\left(y_{br}\right) := \frac{M_{AA} \cdot y_{br}}{J_{ACn}} \qquad \tau_z\left(y_{br}\right) := \frac{\tau_{zym}\left(y_{br}\right)}{\cos\left(\alpha\left(y_{br}\right)\ \boldsymbol{deg}\right)}$$

$$\sigma_{1AAid}\left(y_{br}\right) := \sqrt{\sigma_{AA}\left(y_{br}\right)^2 + 3 \cdot \tau_z\left(y_{br}\right)^2}$$

$$\sigma_{1AAid}\left(y_{br}\right)\ \left(\frac{\boldsymbol{kgf}}{\boldsymbol{mm}^2}\right)$$

$$y_{br}\ \left(\boldsymbol{mm}\right)$$

$$\sigma_{1AAid}\left(H + y_G\right) = 16.629\ \frac{\boldsymbol{kgf}}{\boldsymbol{mm}^2} \qquad \tau_z(0) = 3.099\ \frac{\boldsymbol{kgf}}{\boldsymbol{mm}^2}$$

$$\sigma_{AA}\left(H + y_G\right) = 16.629\ \frac{\boldsymbol{kgf}}{\boldsymbol{mm}^2} \qquad \tau_z\left(H + y_G\right) = 0\ \frac{\boldsymbol{kgf}}{\boldsymbol{mm}^2}$$