$$F_{Sx} \coloneqq 1 \ N$$

## Abscherung am Bolzen der Absteifstange:

## Angabe:

 $d \coloneqq 6 \ \boldsymbol{mm}$ 

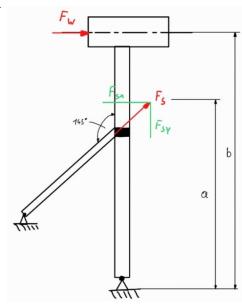
 $F_w \coloneqq 6.637 \ N$ 

 $a \coloneqq 2050 \ mm$ 

 $r \coloneqq 3 \ mm$ 

 $b = 2912.26 \ mm$ 

## Skizze:



## Berechnung:

$$\varSigma M_B\!\coloneqq\! F_w\!\cdot\! b\!+\!F_{Sx}\!\cdot\! a$$

$$F_{Sx} \coloneqq \frac{F_w \cdot b}{a} = 9.429 \ N$$

$$F_S \coloneqq F_{Sx} \cdot \sin(55^\circ) = 7.723 \ N$$

$$\tau_a \coloneqq \frac{F_S}{r^2 \cdot \pi} = 0.273 \; \frac{N}{mm^2}$$