



$$\begin{aligned}A_{c,eff,S,D01} &= m * d * (l_{a,D01} + 30 + \tan(30^\circ) * t_{i,D01}) \\A_{c,eff,L,D01} &= b * (l_{a,D01} + 30) \\h_{Sy,T,D01} &= h - t_{iii,mit} / 2 - t_{i,D01} \\I_{Sy,T,D01} &= h_{Sy,T,D01} / 24 * (d * m * (-4 * h_{Sy,T,D01}^2 + 6 * h_{Sy,T,D01} * (2 * s_{y,S} - t_{iii,mit}) - 12 * t_{iii,mit} * s_{y,S} + 9 * t_{iii,mit}^2) + 12 * b * t_{iii,mit} * (2 * s_{y,S} - t_{iii,mit}))\end{aligned}$$

$$\begin{aligned}R_{v,z,k,D01} &= \text{MIN} (A_{c,eff,L,D01} * k_{c,90} * f_{c,90,k} / b ; A_{c,eff,S,D01} * k_{c,90} * f_{c,90,k} / b * I_{y,S} / I_{Sy,T,D01} ; A_w * f_{v,k} / b) \\R_{v,z,d,D01} &= R_{v,z,k,D01} * k_{mod} / \gamma_M\end{aligned}$$

Mit: $t_{iii,mit} = h / 12$ $k_{c,90} = 1;$ $f_{c,90,k} = 2.5 \text{ N/mm}^2;$ $f_{v,k} = 2.0 \text{ N/mm}^2$

Formeln Nachweise D01