SPRICKVIDD MAXLAST BRUKSGRÄNSTILLSTÅNDET **BBK 04**

$$\sigma_{sbmax} := \sigma_s(x)\cdot\frac{\left(h - x - t_s - \frac{\phi_s}{2}\right)}{d - x} \qquad \sigma_{sbmax} = 308$$

$info2 = 2$ $\qquad A := 2\cdot(h - d)$ $\qquad B := \left(A \ \frac{h - x}{3}\right)$ $\qquad def := \begin{cases} \min(B) & \text{if } info2 = 2 \\ A & \text{if } info2 = 1 \end{cases}$

$def = 42.6$ mm

$$\chi_2 := 0.25 - \frac{def}{8\cdot(h - x)} \qquad \chi_2 = 0.208$$

Armeringsinnehåll

$$\rho_r := \frac{A_s}{b(h)\cdot def} \qquad \phi_s = 9 \qquad \rho_r = 0.0142$$

$\chi_1 = 1.2$

Sprickavstånd $\qquad S_{rm} := 50 + \chi_1\cdot\chi_2\cdot\frac{\phi_s}{\rho_r} \qquad S_{rm} = 208.3$ mm

$$S_{rm} := if\left(InfoNÄT = 1, if\left(s \le S_{rm}, s, S_{rm}\right), S_{rm}\right) \qquad S_{rm} = 208.3 \text{ mm}$$

$M = 20.8$ $\quad M_{cr} = 8.6$

$$\nu := 1 - \left(\frac{0.5}{2\cdot\chi_1}\right)\cdot\frac{M_{cr}}{M} \qquad \nu := if\left(\nu > 1.0, 1.0, \nu\right) \qquad Q := \left(\nu \ \ 0.4\right) \qquad \nu := \max(Q) \qquad \nu = 0.91$$

Sprickvidd $\qquad w_k := 1.7\cdot\nu\cdot\left(\frac{\sigma_{sbmax}}{E_{sk}} + 0\cdot\varepsilon_{cs}\right)\cdot S_{rm} \qquad \varepsilon_{cs} = 0$

$$w_{kb} := if\left(\sigma_{cbuk} \ge 0, w_k, 0\right) \qquad w_{kb} = 0.498 \text{ mm}$$