

VÝSLEDKY

A1	$A \geq 250,0 \text{ mm}^2$	$A_{\text{návrh}} = 260 \text{ mm}^2$	$N_{\text{max}} = 40 \text{ kN}$	$\sigma_{\text{max}} = 153,8 \text{ MPa}$	$u_{\text{max}} = 1,23 \text{ mm}$
A2	$A \geq 333,3 \text{ mm}^2$	$A_{\text{návrh}} = 340 \text{ mm}^2$	$N_{\text{max}} = 45 \text{ kN}$	$\sigma_{\text{max}} = 147,0 \text{ MPa}$	$u_{\text{max}} = 3,71 \text{ mm}$
A3	$A \geq 357,1 \text{ mm}^2$	$A_{\text{návrh}} = 360 \text{ mm}^2$	$N_{\text{max}} = 60 \text{ kN}$	$\sigma_{\text{max}} = 208,0 \text{ MPa}$	$u_{\text{max}} = 3,16 \text{ mm}$
A4	$A \geq 333,3 \text{ mm}^2$	$A_{\text{návrh}} = 340 \text{ mm}^2$	$N_{\text{max}} = 20 \text{ kN}$	$\sigma_{\text{max}} = 117,6 \text{ MPa}$	$u_{\text{max}} = 1,45 \text{ mm}$
A5	$A \geq 357,1 \text{ mm}^2$	$A_{\text{návrh}} = 360 \text{ mm}^2$	$N_{\text{max}} = 30 \text{ kN}$	$\sigma_{\text{max}} = 138,9 \text{ MPa}$	$u_{\text{max}} = 0,65 \text{ mm}$
A6	$A \geq 328,9 \text{ mm}^2$	$A_{\text{návrh}} = 340 \text{ mm}^2$	$N_{\text{max}} = 50 \text{ kN}$	$\sigma_{\text{max}} = 183,8 \text{ MPa}$	$u_{\text{max}} = 3,07 \text{ mm}$

Poznámka: Výsledky σ_{max} a u_{max} sú pre $A_{\text{návrh}}$.

A7	$N_{\text{max}} = 25,1 \text{ kN}$	$\sigma_{\text{max}} = 7,0 \text{ MPa}$	$u_{\text{max}} = 8,00 \cdot 10^{-5} \text{ m}$
A8	$N_{\text{max}} = 22,6 \text{ kN}$	$\sigma_{\text{max}} = 4,1 \text{ MPa}$	$u_{\text{max}} = 1,92 \cdot 10^{-5} \text{ m}$
A9	$N_{\text{max}} = 28,4 \text{ kN}$	$\sigma_{\text{max}} = 2,6 \text{ MPa}$	$u_{\text{max}} = 2,41 \cdot 10^{-5} \text{ m}$
A10	$N_{\text{max}} = 30,2 \text{ kN}$	$\sigma_{\text{max}} = 11 \text{ MPa}$	$u_{\text{max}} = 7,03 \cdot 10^{-5} \text{ m}$
A11	$N_{\text{max}} = 18,2 \text{ kN}$	$\sigma_{\text{max}} = 3,1 \text{ MPa}$	$u_{\text{max}} = 3,51 \cdot 10^{-5} \text{ m}$
A12	$N_{\text{max}} = 32,4 \text{ kN}$	$\sigma_{\text{max}} = 4,5 \text{ MPa}$	$u_{\text{max}} = 5,55 \cdot 10^{-5} \text{ m}$

B1	$T_{\text{max}} = 1212 \text{ Nm}$	$\tau_{\text{max}} = 96,5 \text{ MPa}$	$\varphi_{\text{max}} = 47,7 \cdot 10^{-3} \text{ rad}$
B2	$T_{\text{max}} = 1365 \text{ Nm}$	$\tau_{\text{max}} = 41,8 \text{ MPa}$	$\varphi_{\text{max}} = 29,2 \cdot 10^{-3} \text{ rad}$
B3	$T_{\text{max}} = 1505 \text{ Nm}$	$\tau_{\text{max}} = 35,5 \text{ MPa}$	$\varphi_{\text{max}} = 15,6 \cdot 10^{-3} \text{ rad}$
B4	$T_{\text{max}} = 870 \text{ Nm}$	$\tau_{\text{max}} = 74,7 \text{ MPa}$	$\varphi_{\text{max}} = 54,4 \cdot 10^{-3} \text{ rad}$
B5	$T_{\text{max}} = 1000 \text{ Nm}$	$\tau_{\text{max}} = 68,8 \text{ MPa}$	$\varphi_{\text{max}} = 49,9 \cdot 10^{-3} \text{ rad}$
B6	$T_{\text{max}} = 1955 \text{ Nm}$	$\tau_{\text{max}} = 23,6 \text{ MPa}$	$\varphi_{\text{max}} = 10,2 \cdot 10^{-3} \text{ rad}$

B7	$T_{\text{max}} = 111 \text{ Nm}$	$D \geq 0,031 \text{ m}$	$\tau_{\text{max}} = \tau_D \text{ pre } D_{\text{min}}$
B8	$T_{\text{max}} = 345,3 \text{ Nm}$	$D \geq 0,039 \text{ m}$	$\tau_{\text{max}} = \tau_D \text{ pre } D_{\text{min}}$
B9	$T_{\text{max}} = 325,3 \text{ Nm}$	$D \geq 0,038 \text{ m}$	$\tau_{\text{max}} = \tau_D \text{ pre } D_{\text{min}}$
B10	$T_{\text{max}} = 533,75 \text{ Nm}$	$D \geq 0,049 \text{ m}$	$\tau_{\text{max}} = \tau_D \text{ pre } D_{\text{min}}$
B11	$T_{\text{max}} = 415,6 \text{ Nm}$	$D \geq 0,045 \text{ m}$	$\tau_{\text{max}} = \tau_D \text{ pre } D_{\text{min}}$
B12	$T_{\text{max}} = 568,2 \text{ Nm}$	$D \geq 0,042 \text{ m}$	$\tau_{\text{max}} = \tau_D \text{ pre } D_{\text{min}}$

C1	-	$V_{\text{max}} = 2,5 \text{ kN}$	$M_{\text{max}} = 1,25 \text{ kNm}$	$\sigma_{\text{max}} = 1,78 \text{ MPa}$
C2	-	$V_{\text{max}} = 0,8 \text{ kN}$	$M_{\text{max}} = 0,87 \text{ kNm}$	$\sigma_{\text{max}} = 1,24 \text{ MPa}$
C3	$N_{\text{max}} = 35,5 \text{ kN}$	$V_{\text{max}} = 61,5 \text{ kN}$	$M_{\text{max}} = 160,4 \text{ kNm}$	$\sigma_{\text{max}} = 228,49 \text{ MPa}$
C4	$N_{\text{max}} = 62,5 \text{ kN}$	$V_{\text{max}} = 134 \text{ kN}$	$M_{\text{max}} = 299,3 \text{ kNm}$	$\sigma_{\text{max}} = 426,35 \text{ MPa}$
C5	$N_{\text{max}} = 190 \text{ kN}$	$V_{\text{max}} = 150 \text{ kN}$	$M_{\text{max}} = 261,3 \text{ kNm}$	$\sigma_{\text{max}} = 372,22 \text{ MPa}$
C6	$N_{\text{max}} = 95 \text{ kN}$	$V_{\text{max}} = 75 \text{ kN}$	$M_{\text{max}} = 130,6 \text{ kNm}$	$\sigma_{\text{max}} = 186,04 \text{ MPa}$
C7	$N_{\text{max}} = 43 \text{ kN}$	$V_{\text{max}} = 43 \text{ kN}$	$M_{\text{max}} = 60 \text{ kNm}$	$\sigma_{\text{max}} = 85,47 \text{ MPa}$
C8	$N_{\text{max}} = 94 \text{ kN}$	$V_{\text{max}} = 70 \text{ kN}$	$M_{\text{max}} = 134,1 \text{ kNm}$	$\sigma_{\text{max}} = 191,03 \text{ MPa}$
C9	$N_{\text{max}} = 10 \text{ kN}$	$V_{\text{max}} = 15 \text{ kN}$	$M_{\text{max}} = 24 \text{ kNm}$	$\sigma_{\text{max}} = 34,19 \text{ MPa}$
C10	$N_{\text{max}} = 8 \text{ kN}$	$V_{\text{max}} = 12 \text{ kN}$	$M_{\text{max}} = 25 \text{ kNm}$	$\sigma_{\text{max}} = 35,61 \text{ MPa}$
C11	$N_{\text{max}} = 20 \text{ kN}$	$V_{\text{max}} = 18 \text{ kN}$	$M_{\text{max}} = 12 \text{ kNm}$	$\sigma_{\text{max}} = 17,09 \text{ MPa}$
C12	$N_{\text{max}} = 15 \text{ kN}$	$V_{\text{max}} = 20 \text{ kN}$	$M_{\text{max}} = 55 \text{ kNm}$	$\sigma_{\text{max}} = 78,35 \text{ MPa}$

D1	$w_K = 3,72 \text{ mm}$
D2	$w_K = 0,75 \text{ mm}$
D3	$\varphi_K = 0,136 \text{ rad}$
D4	$w_K = 6,22 \text{ mm}$
D5	$\varphi_K = 0,0026 \text{ rad}$
D6	$w_K = 7,46 \text{ mm}$
D7	$w_K = 17,9 \text{ mm}$
D8	$w_K = 2,59 \text{ mm}$