

[Remarks:](#) See §7.2, example 2, page 250 till 252

[Answers:](#)

- a. $n = 5000 \text{ N/m}$
- b. at the ring beam: $n_v = 3000 \text{ N/m}$
 $\rightarrow q_{\text{ringbeam}} \geq 3000 \text{ N/m}$
- c. The horizontal load on the ring belt is an equally distributed load pointing to the inside of the structure and equal to the horizontal component of the membrane force: $n_h = 4000 \text{ N/m}$

This creates a compressive force in the ring beam:

$$N_{\text{ringbeam}} = -60 \text{ kN}$$