

Remarks: See §7.2, example 2, page 250 till 252

Answers:

- a. $n = 2887,5 \text{ N/m}$
- b. vertical support reactions: $n_v = 2500,6 \text{ N/m}$
- c. The horizontal load on the ring belt is an equally distributed load pointing to the outside of the structure and equal to the horizontal component of the membrane force.
 $n_h = 1443,7 \text{ N/m}$

This creates a tensile force in the ring beam:

$$N_{\text{ringbeam}} = 20,63 \text{ kN}$$