Remarks: See §7.2, example 1, page 246 till 250

Answers:

a. $n = 4800\,\mathrm{N/m}$

b. At the concrete beam: $n_v = 2400\sqrt{3}\,\mathrm{N/m} = 4157\,\mathrm{N/m}$
$\rightarrow A_{beam} = 0{,}1\sqrt{3}\ \mathrm{m^2} = 0{,}173\ \mathrm{m^2}$

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: $n_h = 2400\,\mathrm{N/m}$
This creates tensile forces in the tie-rods between the concrete beams.
$N_{tierod} = 6000\ \mathrm{N}$