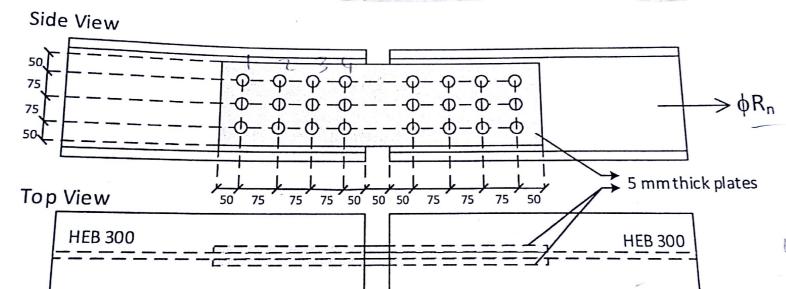
4. For the bearing type connection shown below, determine the connection's tensile force capacity  $(\phi R_n)$  based on bolted connection limit states only. The HEB 300 members and 5 mm plates are made of S235  $(F_y(\sigma_y) = 235 \text{ MPa}, F_u(\sigma_u) = 380 \text{ MPa})$  class steel and S275  $(F_y(\sigma_y) = 275 \text{ MPa}, F_u(\sigma_u) = 430 \text{ MPa})$  class steel, respectively. All bolts are M24, Grade 4.6 with standard holes. Threads are excluded in shear design calculations. Use LRFD.



A=h

ear bearing

 $3 = 0.563 \times 400 \times 452 = 101.8 \text{ km}$  $3 = 0.25 \times 101.8 = 26.3 \text{ km} \times 0$ 

Shear p(11,

er plate