Remarks: See §6.4, page 231 and on

Answers:

a. floors: 1134,4 kN
column: 72,0 kN
total: 1206,4 kN

b. floors: 567,2 kN
column: 72,0 kN
total: 639,2 kN

c. floors: 283,6 kN
column: 72,0 kN
total: 355,6 kN

Remarks:

weight 1 m^2 vloer: 6 kN
dead load pro m^2: 1,5 kN
total pro m^2 floor: 7,5 kN
weight of 1 m column: 6 kN

Centre column:
total floor surface: $5 \times (5{,}5\ \text{m}^2) = 151{,}25\ \text{m}^2$
weight: $(151{,}25\ \text{m}^2)(7{,}5\,\text{kN/m}^2) = 1134{,}4\ \text{kN}$
total column length:
$\{(16{,}25\ \text{m}) - (3{,}25\ \text{m})\} - 4 \times (0{,}25\ \text{m}) = 12\ \text{m}$
weight: $(12\ \text{m})(6\,\text{kN/m}) = 72\ \text{kN}$
total weight: 1206,4 kN

Outer column:
Carries half of the floorsurface compared to the centre column

Corner column:
Carries a quarter of the floorsurface compared to the centre column