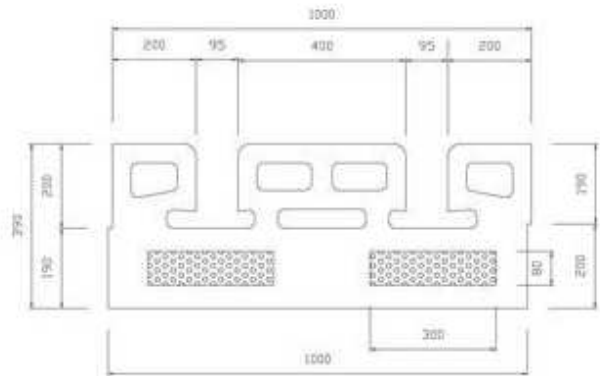


Floorslabs S39



Design instructions for floor slab of thickness S=39 cm

Height of cast beam in factory and weight

5 cm - $(0,016 \times 2.500) = 40 \text{ kg/m}^2$

Weight of panel produced in factory

n° 4 x 48 = 156 + 40 = 196 kg/m²

Volume of concrete for completion

0,03 (riempimento elementi in legno) + 0,04 (soletta spessore cm 4) = 0,07 mc/m²

Weight of concrete for completion

0,07 x 2.400 = 168 kg/m²

Total own weight of completed floor slab

40 + 156 + 168 = 364 kg/m²

Total bearable load besides own weight

Gap (m)	Reinforcement for bending in the hypothesis of supported ends				
	300 kg/m ²	400 kg/m ²	500kg/m ²	600 kg/m ²	700 kg/m ²
3.00	2Ø8	2Ø8	1Ø12	1Ø12	2Ø10
4.00	1Ø14	1Ø10+1Ø12	1Ø10+1Ø12	1Ø16	2Ø12
5.00	2Ø12	1Ø12+1Ø14	2Ø14	1Ø12+1Ø16	1Ø14+1Ø16
6.00	1Ø12+1Ø16	1Ø14+1Ø16	2Ø16	1Ø16+1Ø18	2Ø18

The above table has been compiled on the basis of the usual criteria of resistance, considering materials with the following characteristics:
concrete mix: C 25/30 fyk 25N/mm² steel: B450c