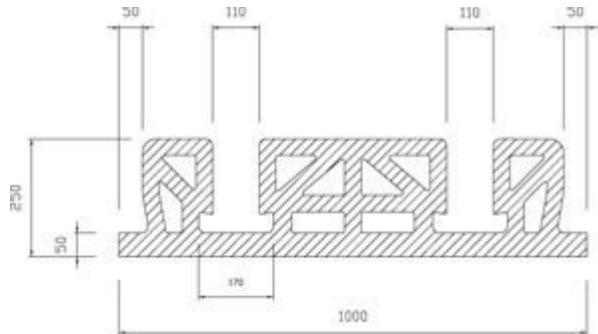


## Floorslabs S25



### Design instructions for floor slab of thickness S=25 cm

#### Height of cast beam in factory and weight

5 cm -  $(0,016 \times 2500) = 40 \text{ kg/m}^2$

#### Weight of panel produced in factory

$n^\circ 4 \times 24 = 96 + 40 = 136 \text{ kg/m}^2$

#### Volume of concrete for completion

$0,03 + 0,02$  (riempimento elementi in legno) +  $0,040$  (soletta spessore cm.4) =  $0,09 \text{ mc/m}^2$

#### Weight of concrete for completion

$0,09 \times 2.400 = 216 \text{ kg/m}^2$

#### Total own weight of completed floor slab

$40 + 96 + 216 = 352 \text{ kg/m}^2$

### Total bearable load besides own weight

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

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/mm<sup>2</sup> steel: B450c