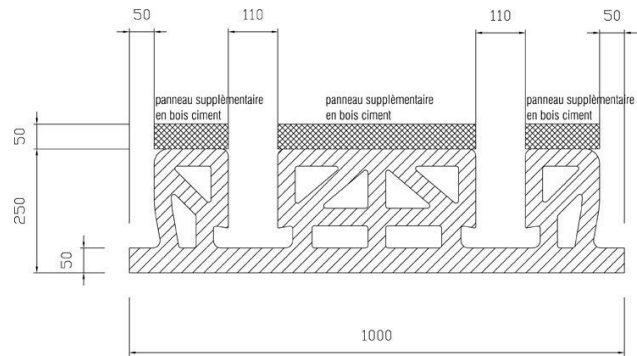


## Floorslabs S30



### Design instructions for floor slab of thickness S=25 + 5 cm

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

5 cm (0,016 x 2.500) = 40 Kg/m<sup>2</sup>

#### Weight of panel produced in factory

n° 4 x 28 = 112 + 40 = 152 kg/m<sup>2</sup>

#### Volume of concrete for completion

0,04+0,025 (riempimento elementi in legno) +0,04 (soletta spessore cm 4) = 0,105 mc/m<sup>2</sup>

#### Weight of concrete for completion

0,105 x 2.400 = 252 kg/m<sup>2</sup>

#### Total own weight of completed floor slab

152 + 252 = 404 kg/m<sup>2</sup>

### 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	1Ø10	1Ø12	1Ø12	1Ø12	1Ø12
4.00	1Ø8+1Ø10	1Ø14	1Ø10+1Ø12	1Ø16	2Ø12
5.00	1Ø16	1Ø12+1Ø14	1Ø12+1Ø14	2Ø14	2Ø14
6.00	2Ø14	1Ø14+1Ø16	1Ø14+1Ø16	2Ø16	1Ø16+1Ø18
7.00	2Ø16	1Ø16+1Ø18	2Ø18	2Ø14+1Ø18	3Ø16

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