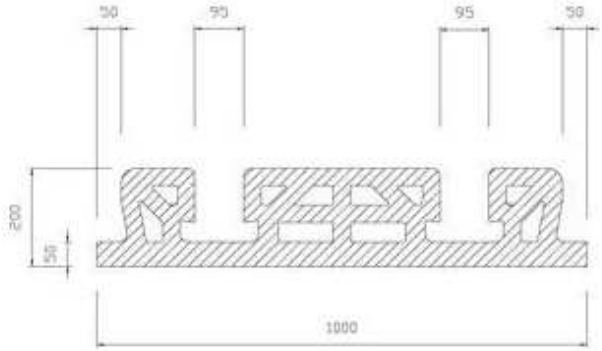
ISOTEX®
WOOD-CEMENT BLOCKS AND FLOOR SLABS

Floorslabs S20



Design instructions for floor slab of thickness S=20 cm
Height of cast beam in factory and weight= 5 cm - (0,016x2500) = 40 kg/m²
Weight of panel produced in factory n° 4 x 20 = 80 + 40 = 120 kg/m²
Volume of concrete for completion 0,02 + 0,015 (filling of elements in wood) + 0,040 (concrete slab thickness cm 4) = 0,075 mc/m²
Weight of concrete for completion 0,075 x 2.400 = 180 kg/m²
Total own weight of completed floor slab 40 + 80 + 180 = 300 kg/m²

Total bearable load besides own wieght					
Gap	**Reinforcement for bending in the hypothesis of supported ends**				
(m)	300 kg/m²	400 kg/m²	500kg/m²	600 kg/m²	700 kg/m²
3.00	1Ø8	1Ø10	1Ø10	1Ø12	1Ø12
4.00	1Ø12	1Ø14	1Ø10+1Ø12	1Ø16	2Ø12
5.00	1Ø16	1Ø12+1Ø14	1Ø12+1Ø16	1Ø14+1Ø16	2Ø16

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