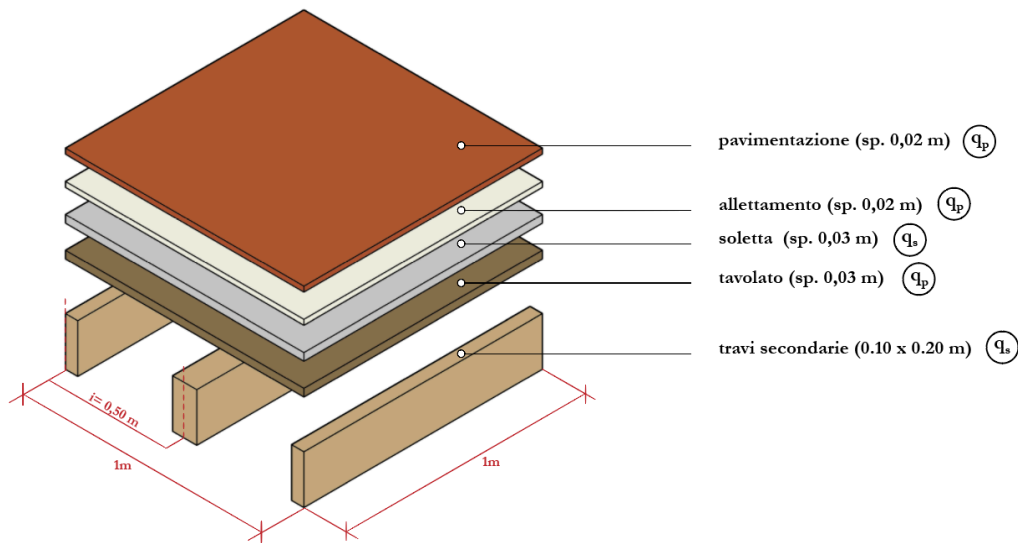


▼ IMG. 01



▼ IMG. 02

① CARICHI STRUTTURALI tot. **0,99**  $\left(\frac{KN}{m^2}\right)$

- Soletta)  $\frac{[0.03 (m) \times 1.0 (m) \times 1.0 (m)] \cdot 25 \left(\frac{KN}{m^3}\right)}{1.0 (m^2)} = 0,75 KN/m^2$
- Travetti)  $\frac{[0.10 (m) \times 1.0 (m) \times 0.20 (m)] \cdot 6 \left(\frac{KN}{m^3}\right) \cdot \frac{1}{0.5 m}}{1.0 (m^2)} = 0,24 KN/m^2$

② SOVRACCARICHI PERMANENTI tot. **0,68**  $\left(\frac{KN}{m^2}\right)$

- Pavimentazione)  $\frac{[1.0 (m) \times 1.0 (m) \times 0.02 (m)] \cdot 5 \left(\frac{KN}{m^3}\right)}{1.0 (m^2)} = 0,1 KN/m^2$
- Allettamento)  $\frac{[1.4 (m) \times 1.0 (m) \times 0.02 (m)] \cdot 20 \left(\frac{KN}{m^3}\right)}{1.0 (m^2)} = 0,4 KN/m^2$
- Tavolato)  $\frac{[1.0 (m) \times 1.0 (m) \times 0.03 (m)] \cdot 6 \left(\frac{KN}{m^3}\right)}{1.0 (m^2)} = 0,18 KN/m^2$

③ CARICHI ACCIDENTALI tot. **2,00**  $\left(\frac{KN}{m^2}\right)$

▼ IMG. 03

$$q_* = 1.3 \times 0.99 \left( \frac{KN}{m^2} \right) + 1.5 \times 0.68 \left( \frac{KN}{m^2} \right) + 1.5 \times 2.0 \left( \frac{KN}{m^2} \right) = 10,26 \left( \frac{KN}{m^2} \right)$$

$$q_u \left( \frac{KN}{m} \right) = q_* \times i = 10,26 \left( \frac{KN}{m^2} \right) \times 5.0 (m) = 51,29 \left( \frac{KN}{m} \right)$$

▼ IMG. 04

A	B	C	D	E	F	G
interasse (m)	$q_s$ (KN/m <sup>2</sup> )	$q_p$ (KN/m <sup>2</sup> )	$q_a$ (KN/m <sup>2</sup> )	$q_u$ (KN/m)	luce (m)	$M_{max}$ (KN*m)
5,00	0,99	0,68	2,00	26,54	6,00	119,41

▼ IMG. 05

$f_{m,k}$ (N/mm <sup>2</sup> )	$k_{mod}$	$\gamma_m$	$f_d$ (N/mm <sup>2</sup> )	b (cm)	$h_{min}$ (cm)	H (cm)
24,00	0,60	1,45	9,93	30,00	49,04	50,00

▼ IMG. 06 - 07

interasse (m)	$q_s$ (kN/mq)	$q_p$ (kN/mq)	$q_a$ (kN/mq)	$q_u$ (kN/m)	luce (m)	$M_{max}$ (kN*m)
5	0,99	0,68	2,00	26,54	2	53,07

$f_{m,k}$ (N/mm <sup>2</sup> )	$k_{mod}$	$\gamma_m$	$f_d$ c	b (cm)	$h_{min}$ (cm)	H (cm)
24	0,6	1,45	9,93	30	32,69	40

▼ IMG. 08

E (N/mm <sup>2</sup> )	$I_x$ (cm <sup>4</sup> )	$q_e$ (kN/m)	$v_{max}$ (cm)	$l/v_{max}$	
8000	160000	13	0,21	958,80	Si

▼ IMG. 09

$L_1$	$L_2$	Area	trave <sub>p</sub>	trave <sub>s</sub>	q <sub>trave</sub>	q <sub>s</sub>	q <sub>p</sub>	q <sub>a</sub>	q <sub>solaio</sub>	n <sub>piani</sub>	N
m	m	m <sup>2</sup>	kN/m	kN/m	kN	kN/mq	kN/mq	kN/mq	kN		kN
6,00	5,00	30,00	0,90	0,90	12,87	0,99	0,68	2,00	159,21	5	860

▼ IMG. 10

f <sub>c0,k</sub>	k <sub>mod</sub>	γ <sub>m</sub>	f <sub>c0d</sub>	A <sub>min</sub>
Mpa			Mpa	cm <sup>2</sup>
21,00	0,60	1,45	8,69	990,1

▼ IMG. 11

E,005	β	l	λ <sub>max</sub>	ρ <sub>min</sub>	b <sub>min</sub>	b	h <sub>min</sub>	h	A <sub>design</sub>	I <sub>design</sub>
Mpa		m		cm	cm	cm	cm	cm	cm <sup>2</sup>	cm <sup>4</sup>
8800	1,0	3,00	99,92	3,00	10,40	40,00	24,75	40,00	1600	213333