

Analisi dei carichi //

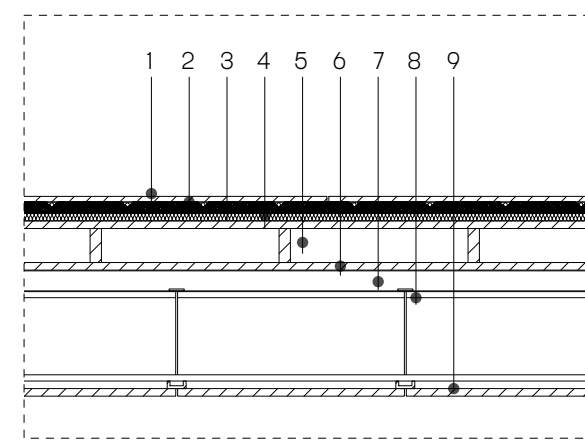
Soloio interpianto // SOL 1
 CARICHI PERMANENTI STRUTTURALE_G
 7 Laminata grezzo non collaborante...
 8 Struttura, trave

0,85 kN/m2

CARICO PERMANENTE NON STRUTTURALE_P
 1 Finestra in legno
 2 Barriera antirumore
 3 Elemento riciclabile EPS
 4 Isolante termoisolante
 5 Vano impianti
 6 Assito in legno
 9 Struttura controsoffitto
 9 Finitura controsoffitto

2 cm
0,25 kN/m²
0,15 kN/m²
3 cm
0,1 kN/m²
3 cm
0,5 kN/m²
2 cm
0,25 kN/m²
1 kN/m²
2,75 kN/m²

CARICHI ACCIDENTALE_O_Residuale
 Totale Carico P
 4,9 kN/m²



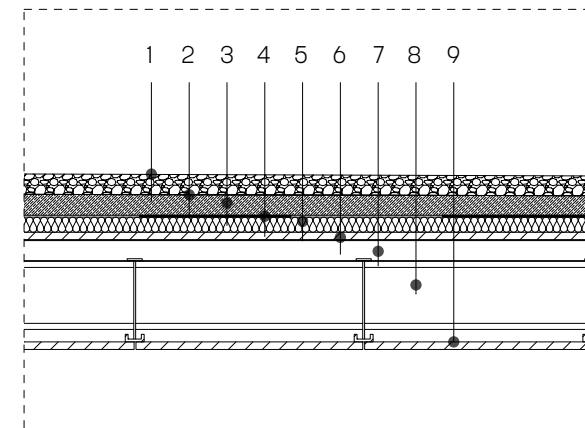
Soloio di copertura // COP 1
 CARICHI PERMANENTI STRUTTURALE_G
 7 Laminata grezzo non collaborante...
 8 Struttura, trave

0,85 kN/m²

CARICO PERMANENTE NON STRUTTURALE_P
 1 Ghiaia
 2 Guaina bituminosa
 3 Massetto di pendenza
 2 Guaina impermeabilizzante
 4 Isolante in fibra di legno
 5 Barriera al vapore
 6 Assito in legno
 9 Struttura controsoffitto
 9 Finitura controsoffitto

12 cm
0,1 kN/m²
10 cm
0,1 kN/m²
8 cm
0,1 kN/m²
1 cm
0,25 kN/m²
3 cm
0,25 kN/m²
2 cm
0,25 kN/m²
2,025 kN/m²

CARICHI ACCIDENTALE_O_Cop non praticabile
 Totale Carico P
 2,675 kN/m²



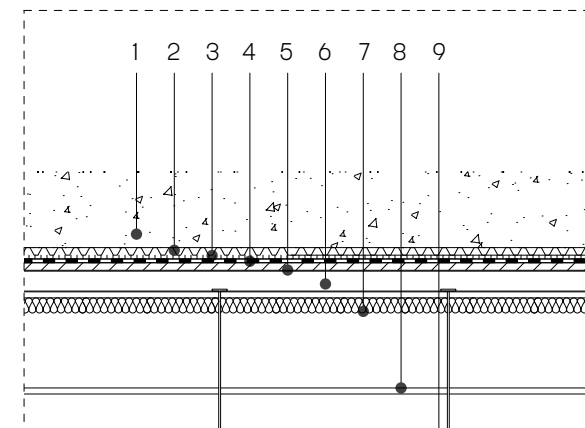
Soloio verde esterno // SOL 3
 CARICHI PERMANENTI STRUTTURALE_G
 7 Laminata grezzo non collaborante...
 8 Struttura, trave

0,85 kN/m²

CARICO PERMANENTE NON STRUTTURALE_P
 1 Terrano verde estensivo
 2 Drenante
 3 Barriera di alluminaio
 4 Barriera al vapore
 5 Assito in legno
 7 Isolante
 9 Struttura controsoffitto
 9 Finitura controsoffitto

20 cm
0,04 kN/m²
0,4 cm
0,1 kN/m²
8 cm
0,03 kN/m²
8 cm
0,25 kN/m²
2 cm
0,25 kN/m²
3,3 kN/m²

CARICHI ACCIDENTALE_O_residuale
 Totale Carico P
 5,45 kN/m²



STUDENTATO //Trave secondaria di copertura

Area di influenza 3,25 x 2,55 m
 Luce = 302,5 cm
 Interspazio = 255 cm

carico distr q=(G+Q2-Q1)Preriscor+...
 Luce = 302,5 cm
 Taglio T = 42,9 kN
 Momento M = (qL²)/8 = 832,67 kNm

FyK = 275 kN/m² = 27,5 kN/m²
 yMO = 1,05
 FyD = FyK yMO = 27,5 / 1,05 = 26,19 kN/m²

Modulo di resistenza
 Wpl_y = M / fyD = 832,67 / 26,19 = 31,79 cm³

Profilo HEB 100

Azioni agenti sulla trave
 sovraccarico perm. strutturale (G1) 1,470 kN/m
 sovraccarico perm. non strutturale (G2) 4,275 kN/m
 sovraccarico spec. copert. non praticabile (Q1) 2,5 kN/m
TOTALE 7,025 kN/m

VERIFICA A SLE - Stati Limite Esercizio
 azione di tutti i carichi 14,015 kN/m
 Luce = 302,5 cm
 Reccia ammissibile f_t = 19200 Luce + (19200/302,5) * 2,04 cm
 Reccia = 5 * qL / 384 EIx + 0,972 cm **verificato**

AZIONE DEI CARICHI ACCIDENTALI_cop non praticabile (Q1)
 0,025 kN/m
 Luce = 302,5 cm
 Reccia ammissibile f_t = 19200 Luce + (19200/302,5) * 1,04 cm
 Reccia = 5 * qL / 384 EIx + 0,473 cm **verificato**

VERIFICA A SLL - Stati Limite Ultimi
 Combinazione fondamentale delle azioni
 (y1)0,9 * (y2)1,25 * (y3)1,0 * (y4)1,0 * (y5)1,0 * (y6)1,0 * (y7)1,0 * (y8)1,0 * (y9)1,0 * (y10)1,0 * (y11)1,0 * (y12)1,0 * (y13)1,0 * (y14)1,0 * (y15)1,0 * (y16)1,0 * (y17)1,0 * (y18)1,0 * (y19)1,0 * (y20)1,0 * (y21)1,0 * (y22)1,0 * (y23)1,0 * (y24)1,0 * (y25)1,0 * (y26)1,0 * (y27)1,0 * (y28)1,0 * (y29)1,0 * (y30)1,0 * (y31)1,0 * (y32)1,0 * (y33)1,0 * (y34)1,0 * (y35)1,0 * (y36)1,0 * (y37)1,0 * (y38)1,0 * (y39)1,0 * (y40)1,0 * (y41)1,0 * (y42)1,0 * (y43)1,0 * (y44)1,0 * (y45)1,0 * (y46)1,0 * (y47)1,0 * (y48)1,0 * (y49)1,0 * (y50)1,0 * (y51)1,0 * (y52)1,0 * (y53)1,0 * (y54)1,0 * (y55)1,0 * (y56)1,0 * (y57)1,0 * (y58)1,0 * (y59)1,0 * (y60)1,0 * (y61)1,0 * (y62)1,0 * (y63)1,0 * (y64)1,0 * (y65)1,0 * (y66)1,0 * (y67)1,0 * (y68)1,0 * (y69)1,0 * (y70)1,0 * (y71)1,0 * (y72)1,0 * (y73)1,0 * (y74)1,0 * (y75)1,0 * (y76)1,0 * (y77)1,0 * (y78)1,0 * (y79)1,0 * (y80)1,0 * (y81)1,0 * (y82)1,0 * (y83)1,0 * (y84)1,0 * (y85)1,0 * (y86)1,0 * (y87)1,0 * (y88)1,0 * (y89)1,0 * (y90)1,0 * (y91)1,0 * 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