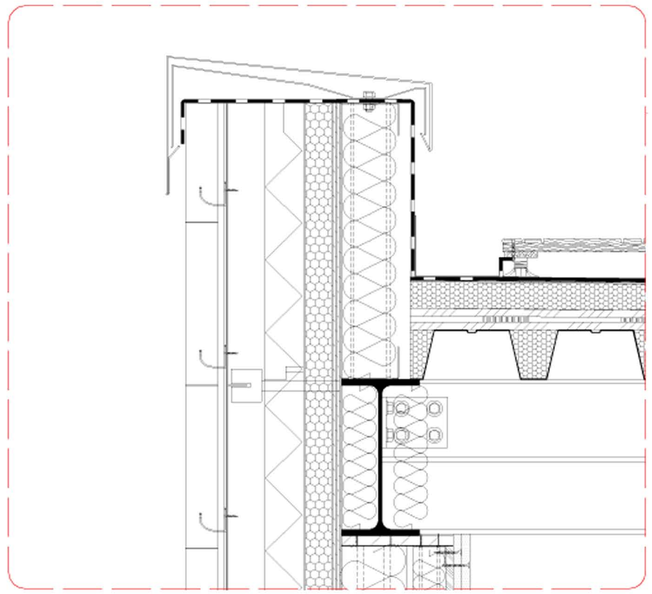
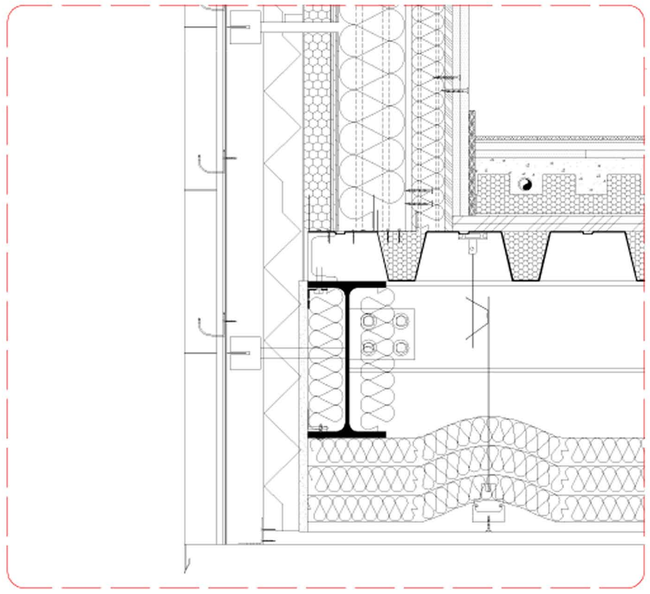
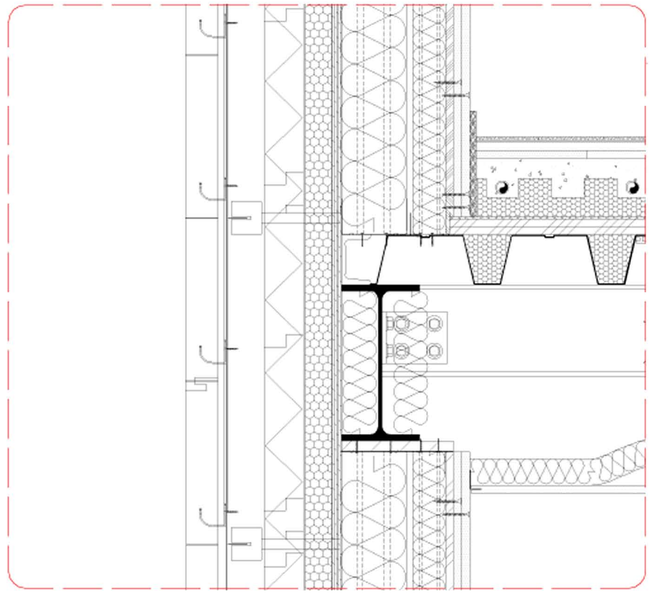
Nodo 1a



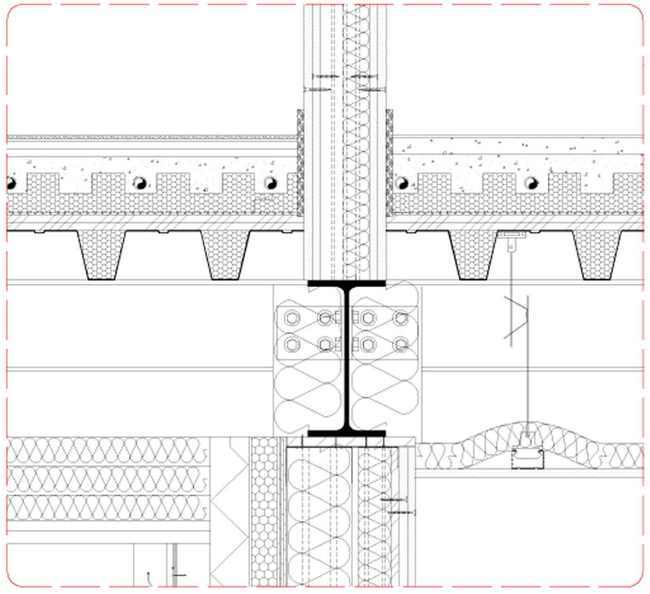
Nodo 3a

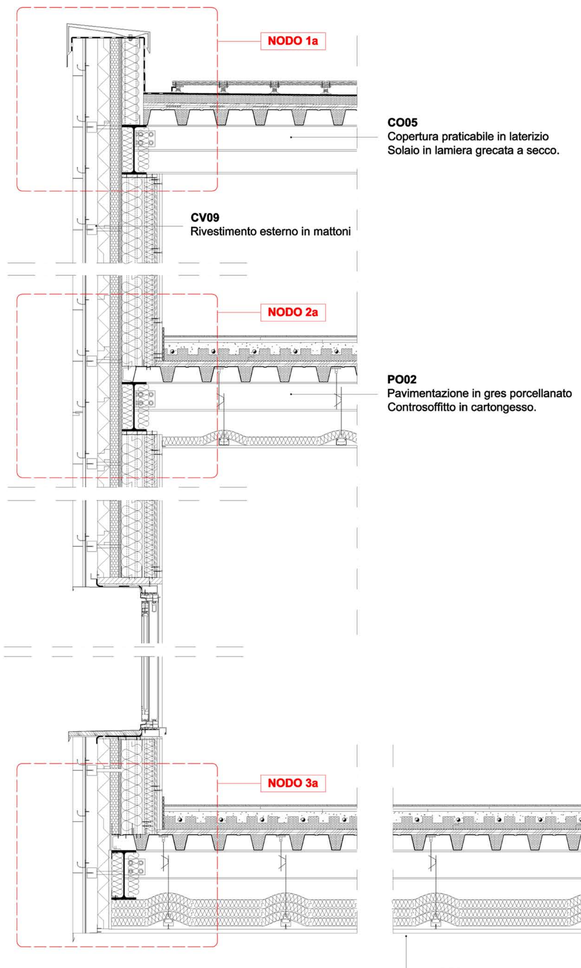


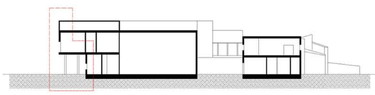
Nodo 2a

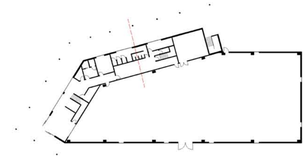


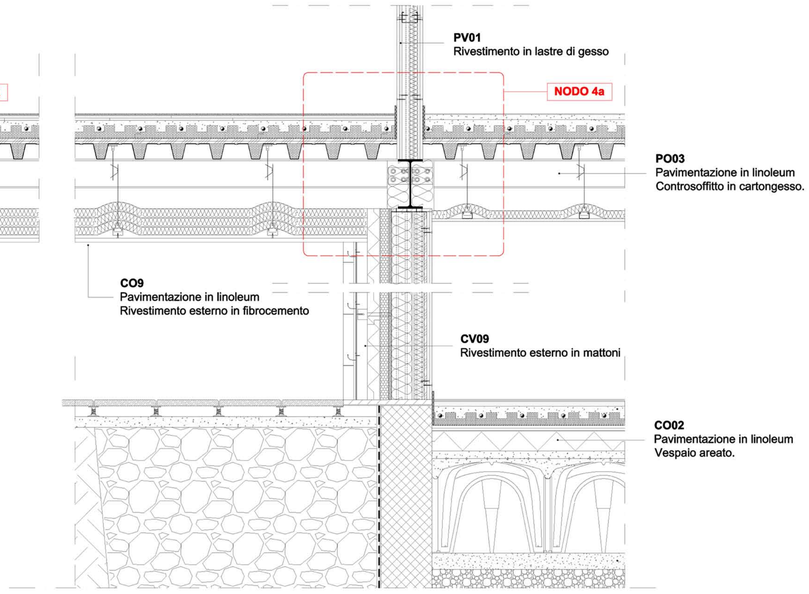
Nodo 4a



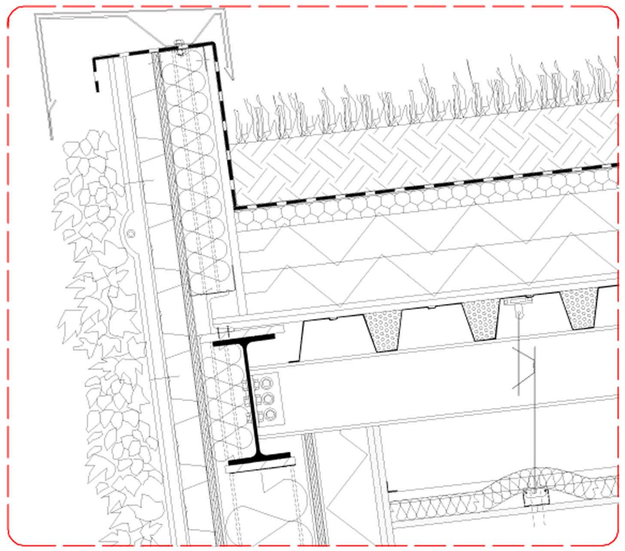




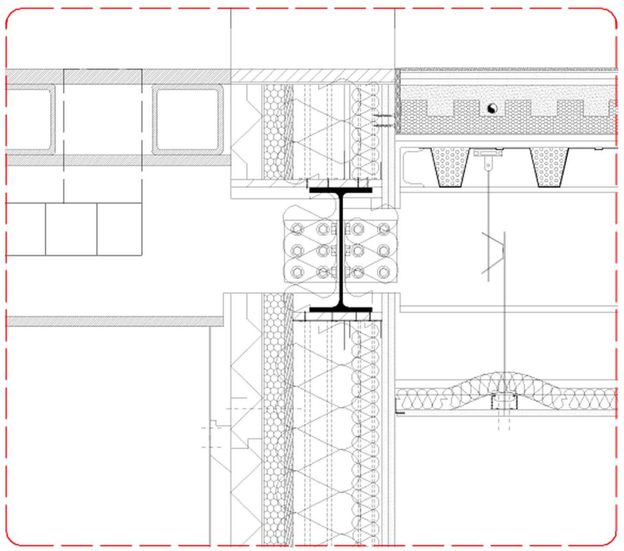




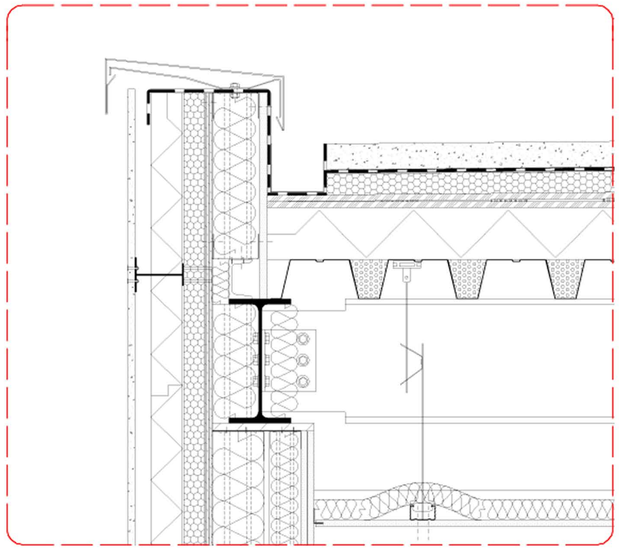
Nodo 1b



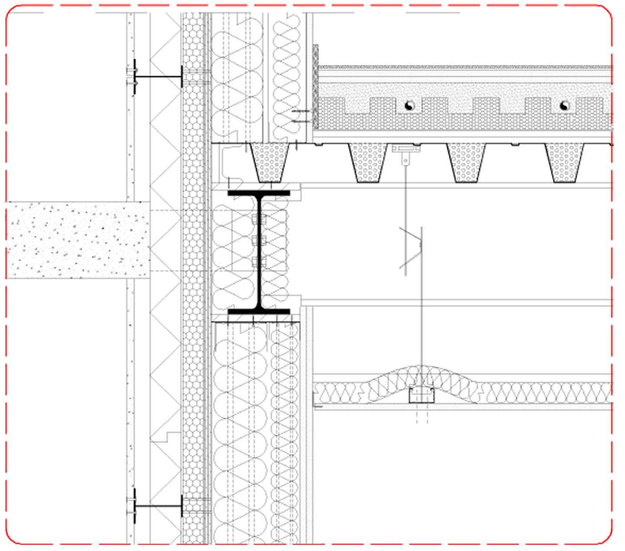
Nodo 2b

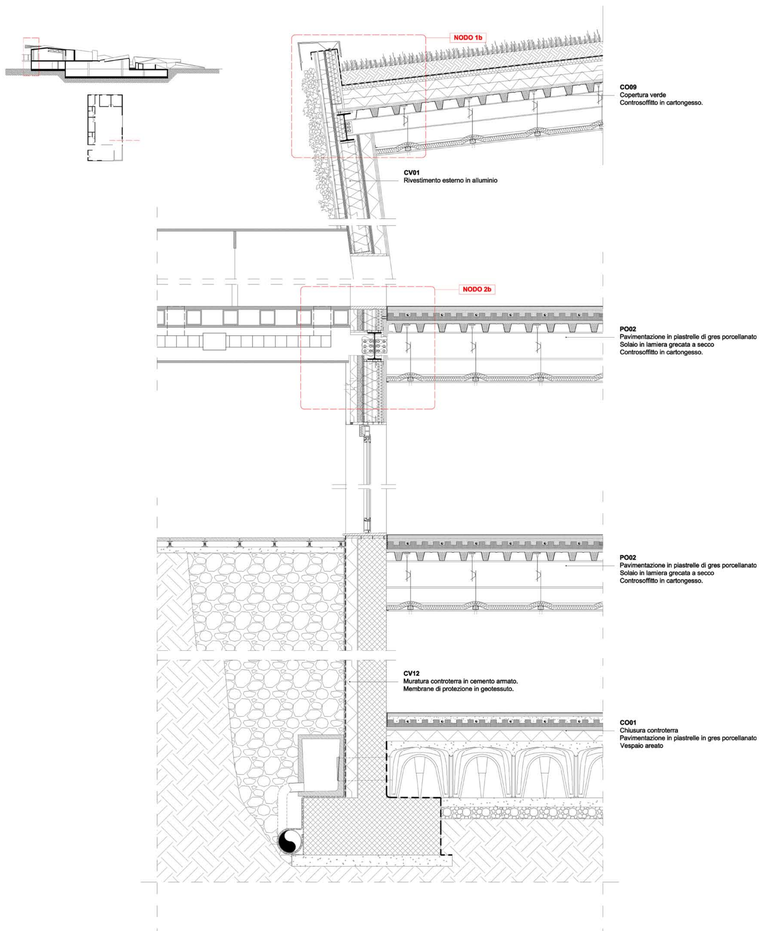


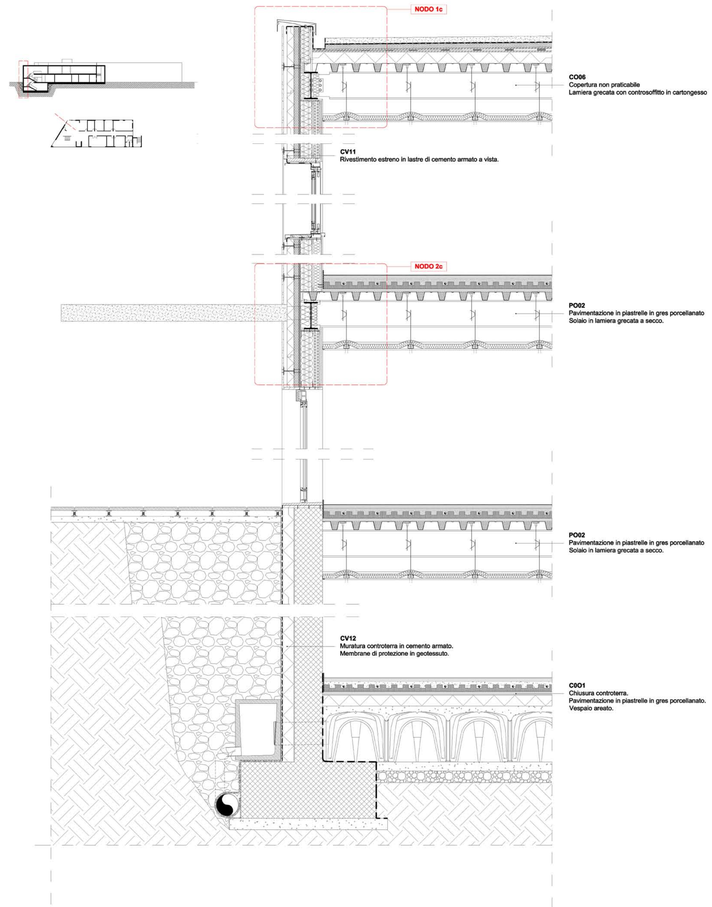
Nodo 1c

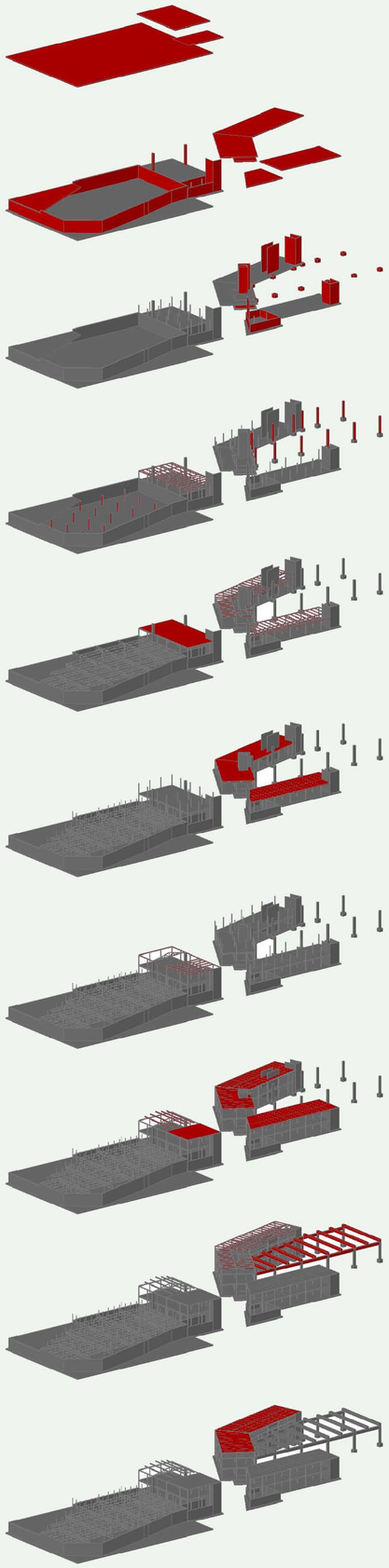


Nodo 2c

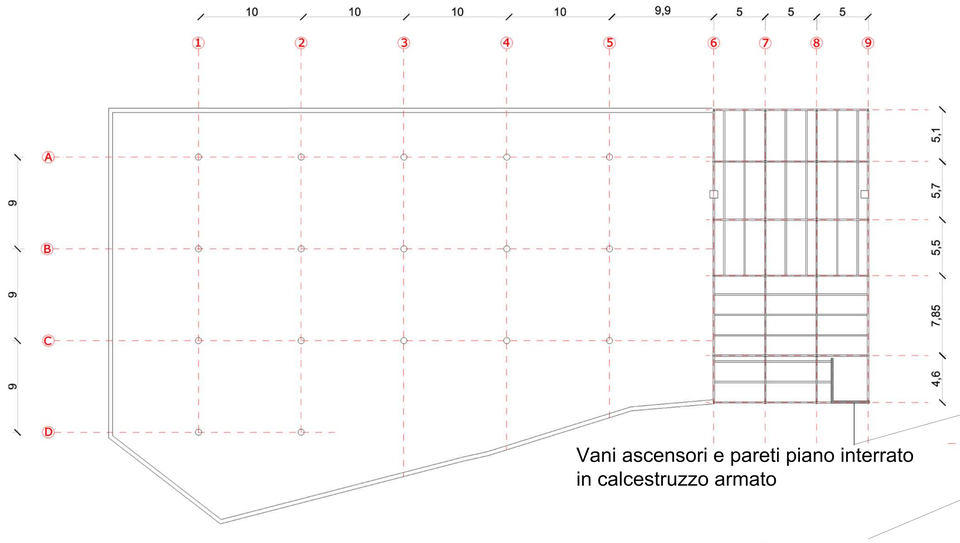






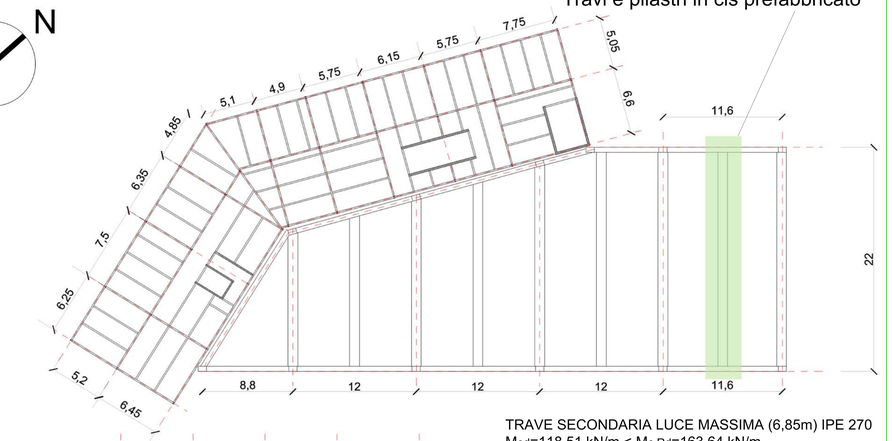


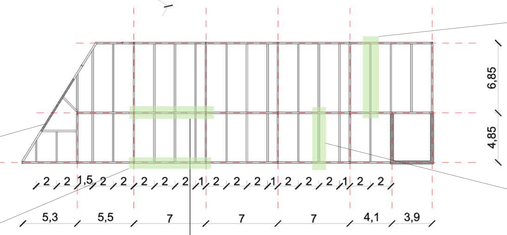
Fondazioni in calcestruzzo armato



Vani ascensori e pareti piano interrato in calcestruzzo armato

Travi e pilastri in cls prefabbricato





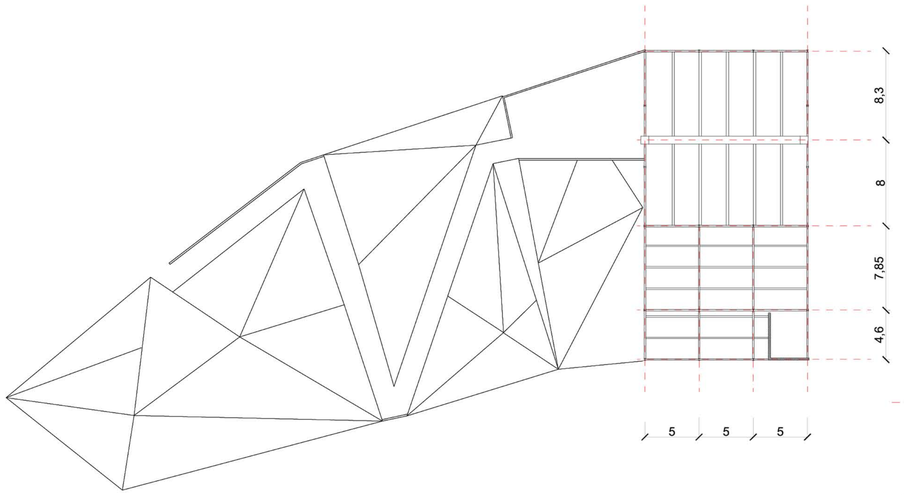
TRAVE SECONDARIA LUCE MASSIMA (6,85m) IPE 270
M_{ed}=118,51 kN/m < $M_{c,Rd}$=163,64 kN/m
δ_{max}'=26,77 mm < δ_{max}=27,4 mm
δ_2=14,15 mm < δ_2=22,83 mm
V_{ed}=57,16 kN < $V_{c,Rd}$=499,1 kN

TRAVE SECONDARIA LUCE MINIMA (4,85m) IPE 200
M_{ed}=58,57 kN/m < $M_{c,Rd}$=74,58 kN/m
δ_{max}'=13,89 mm < δ_{max}=19,4 mm
δ_2=7,43 mm < δ_2=16,17 mm
V_{ed}=39,99 kN < $V_{c,Rd}$=315,47 kN

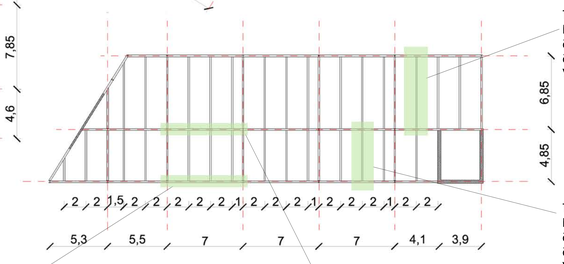
TRAVE PRINCIPALE DI BORDO (7m) IPE 240
M_{ed}=107,24 kN/m < $M_{c,Rd}$=123,95 kN/m
δ_{max}'=25,08 mm < δ_{max}=35 mm
δ_2=17,60 mm < δ_2=28 mm
V_{ed}=125,48 kN < $V_{c,Rd}$=431,58 kN

TRAVE PRINCIPALE DI SPINA (7m) IPE 300
M_{ed}=210,18 kN/m < $M_{c,Rd}$=212,46 kN/m
δ_{max}'=27,77 mm < δ_{max}=28 mm
δ_2=8,20 mm < δ_2=23,33 mm
V_{ed}=168,65 kN < $V_{c,Rd}$=578,81 kN

FASI DI MONTAGGIO
Processo che va dal getto di calcestruzzo per la platea di fondazione, passando per la posa in opera di travi/pilastri in acciaio, delle lamiere grecate, oltre al posizionamento delle strutture in calcestruzzo prefabbricato per l'edificio cantiere.



Travi e pilastri in cls prefabbricato



TRAVE SECONDARIA LUCE MASSIMA COPERTURA (6,85m) IPE 220
M_{ed}=78,69 kN/m < $M_{c,Rd}$=96,49 kN/m
δ_{max}'=34,77 mm < δ_{max}=34,25 mm
δ_2=11,82 mm < δ_2=27,40 mm
V_{ed}=35,55 kN < $V_{c,Rd}$=357,95 kN

TRAVE SECONDARIA LUCE MINIMA COPERTURA (4,85m) IPE 180
M_{ed}=38,89 kN/m < $M_{c,Rd}$=56,26 kN/m
δ_{max}'=18,09 mm < δ_{max}=24,25 mm
δ_2=6,25 mm < δ_2=19,40 mm
V_{ed}=24,75 kN < $V_{c,Rd}$=253,66 kN

TRAVE PRINCIPALE DI BORDO (7m) IPE 270
M_{ed}=123,74kN/m < $M_{c,Rd}$=163,64 kN/m
δ_{max}'=22,25 mm < δ_{max}=27,4 mm
δ_2=10,85 mm < δ_2=22,83 mm
V_{ed}=99,80 kN < $V_{c,Rd}$=499,1 kN

TRAVE PRINCIPALE DI SPINA DI COPERTURA(7m) IPE 300
M_{ed}=210,18 kN/m < $M_{c,Rd}$=212,46 kN/m
δ_{max}'=20,82 mm < δ_{max}=35 mm
δ_2=8,20 mm < δ_2=28 mm
V_{ed}=168,65 kN < $V_{c,Rd}$=578,81 kN

Fabbisogno invernale

Qd [W]	
Parete	2081,54
Solaio copertura	1385,94
Solaio spazi aperti	3909,38

Qv [W]	aula	ufficio	bagni
Preriscaldo	53625,00	22522,50	193,05
Postriscaldo	56203,13	24688,13	217,80

	Qv [W]	Qv [kcal/h]	Qv [kW]
Qd tot [W]	12645,86	10875,44	12,65
Qv tot [W]	81109,05	69753,78	81,11
Qtot [W]	93754,91	80629,22	93,75

Fabbisogno estivo

Calore sensibile persone	70	W
Calore latente persone	40	W
calore sensibile postazioni	200	W

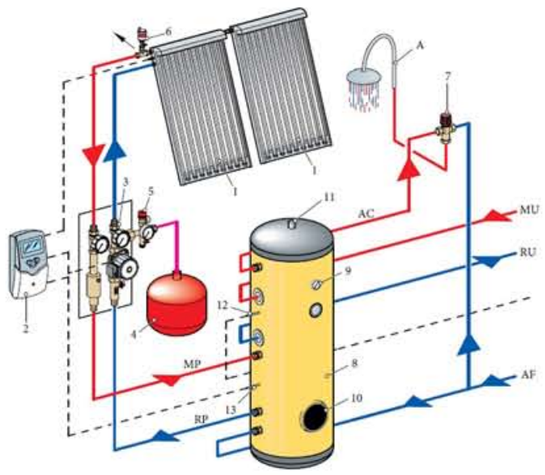
Potenza totale	12,3	kW

GRUPPO FRIGORIFERO 65kW	
Dimensioni	
Lunghezza	2492
Larghezza	986
Altezza	1820

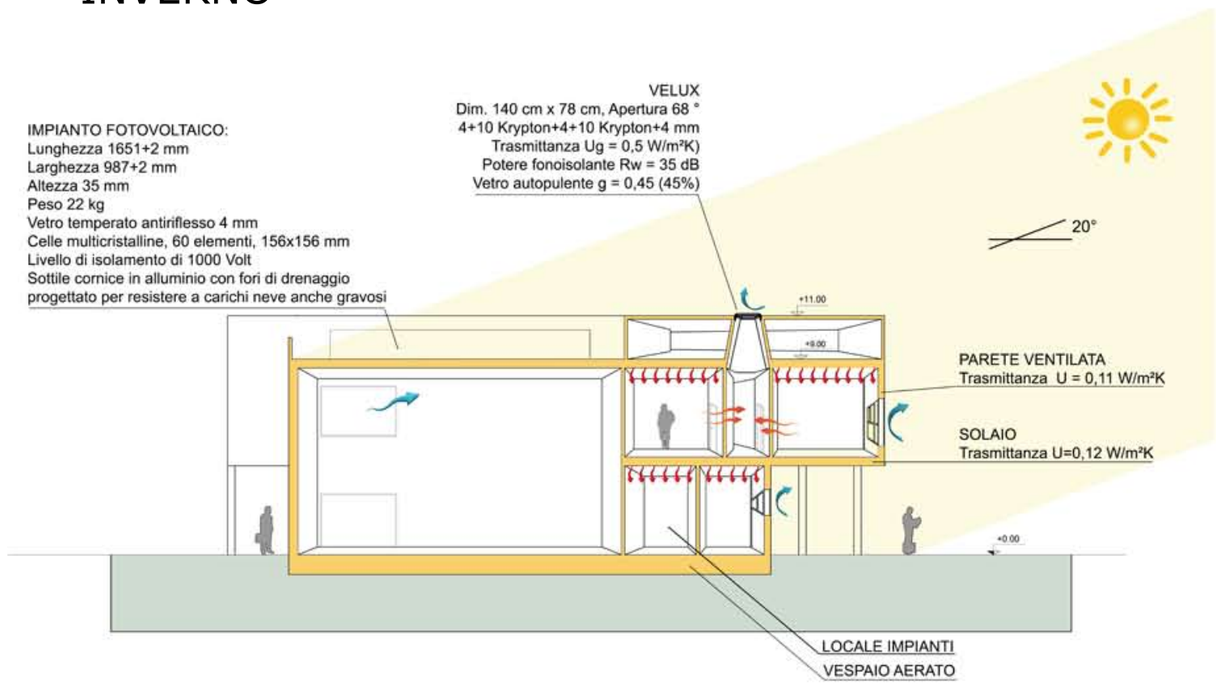
Acqua calda sanitaria

Q piano primo (fattore di contemporaneità) = 29 l/1'

Si è proceduto a questo punto al dimensionamento del diametro della tubazione necessaria per il trasporto della portata di acqua stimata di 2500 l (portata pari sia per acqua calda che per quella fredda)



INVERNO



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