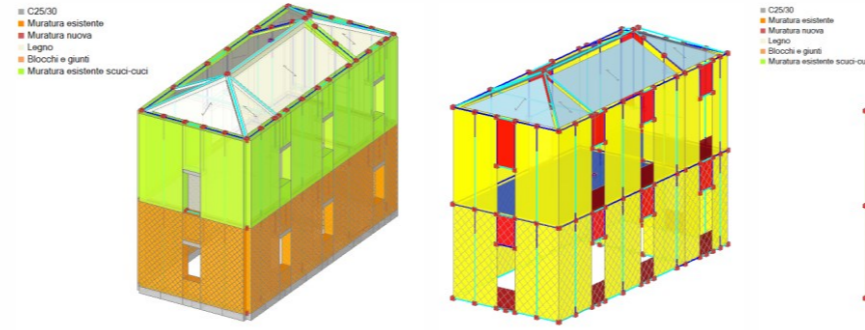


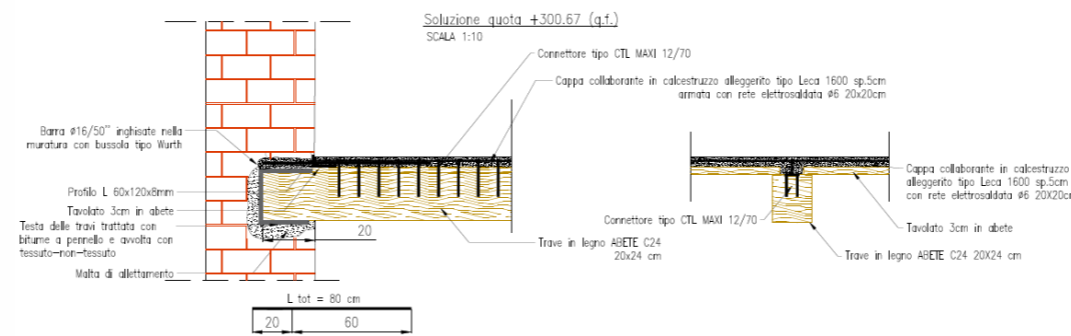
VILLA LAURI – 2° stralcio, ala est



Modello di calcolo tridimensionale

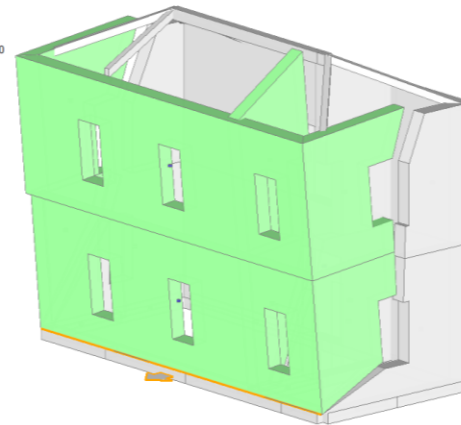
Modello a telaio equivalente

Assegnazione materiale

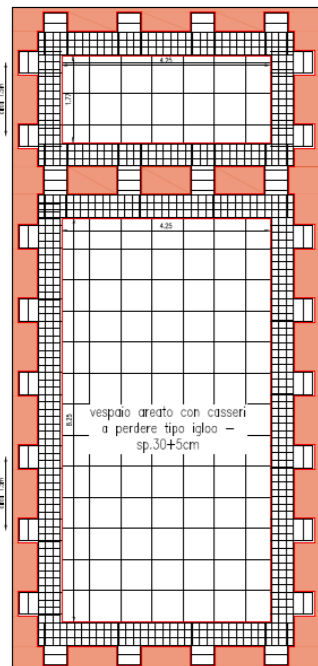


Dettagli costruttivi

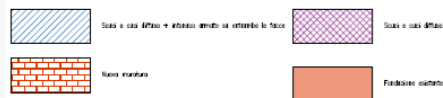
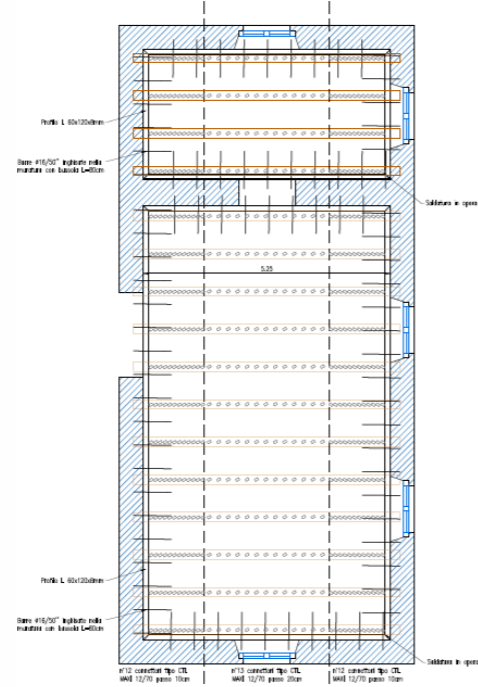
01. Cinematismo
Ribalamento semplice
 $\alpha_0 = 0.148$
SLV
 $PGA_{SLV} / PGA_{DNLV} = 0.262 / 0.236 = 1.110$
 $TR_{DNLV} / TR_{SLV} = 1061 / 712 = 1.490$



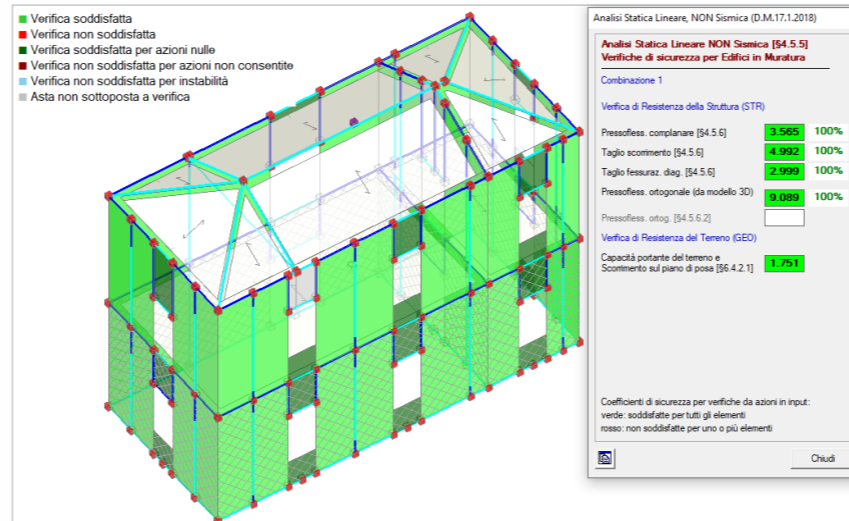
RINFORZO FONDAZIONI
SCALA 1:50



DETTAGLIO SOLAIO Q=+300.67 (q.f.)
SCALA 1:50

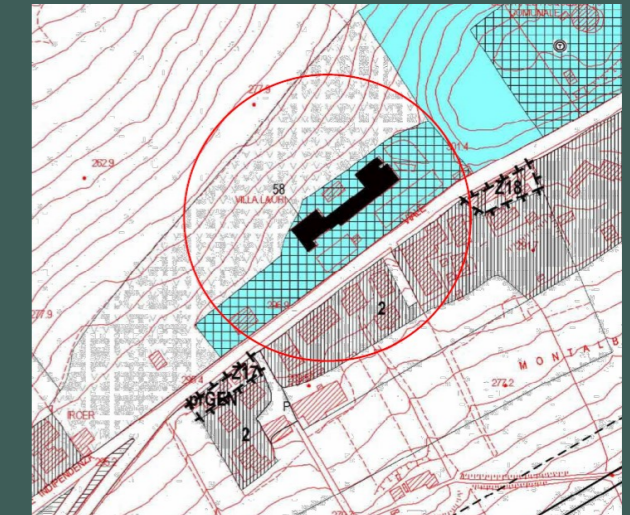


Esito della verifica ai meccanismi locali

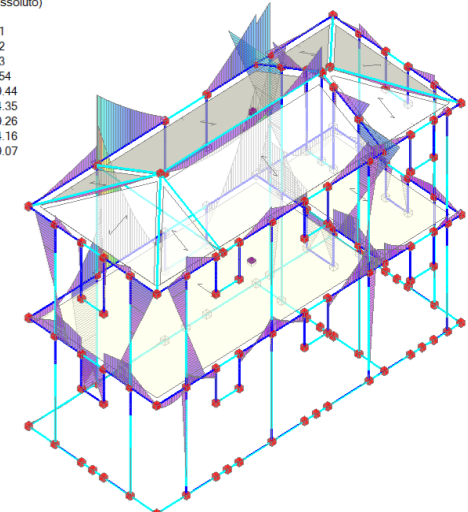
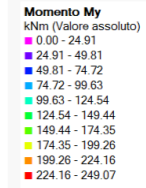
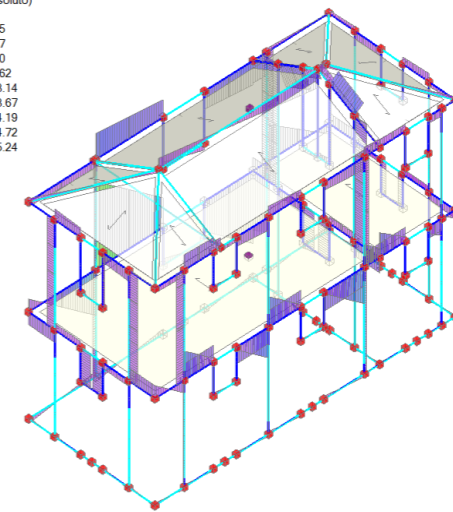
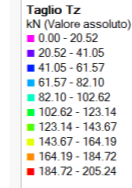
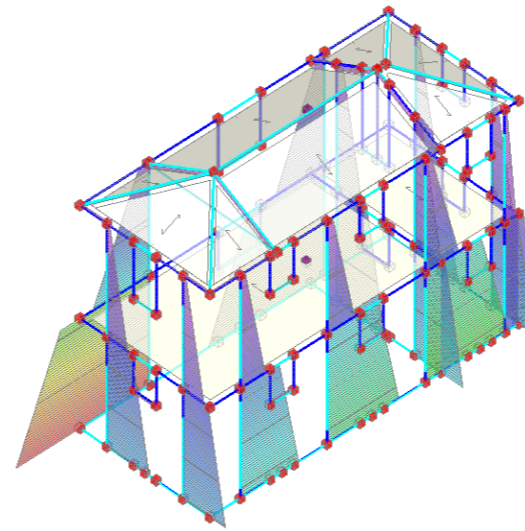
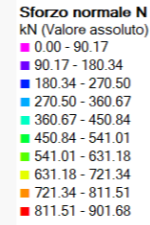
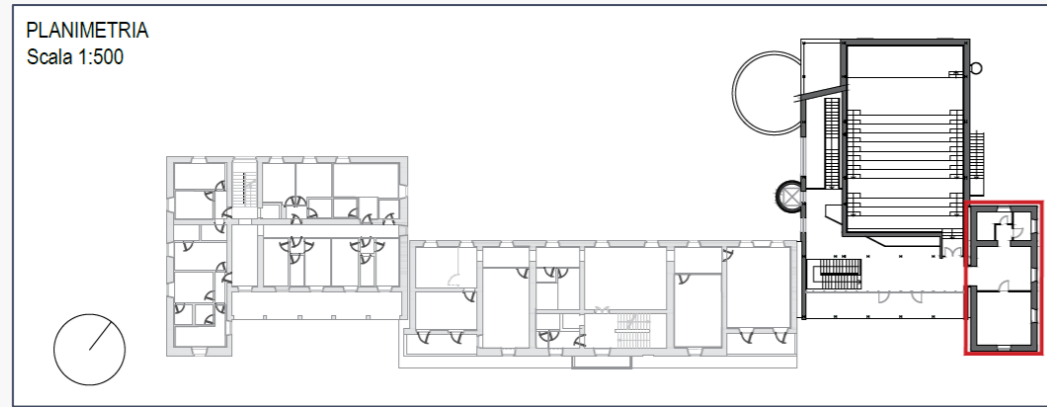


Esito delle verifiche allo SLU

Anno: 2023
Località: Macerata (MC)
Tipologia: muratura storica
Superficie lorda complessiva di intervento: circa 728,41 mq



Servizio di progettazione definitiva dell'intervento avente ad oggetto i lavori di recupero dell'ala est dell'immobile Villa Lauri, localizzato in viale dell'Indipendenza di Macerata

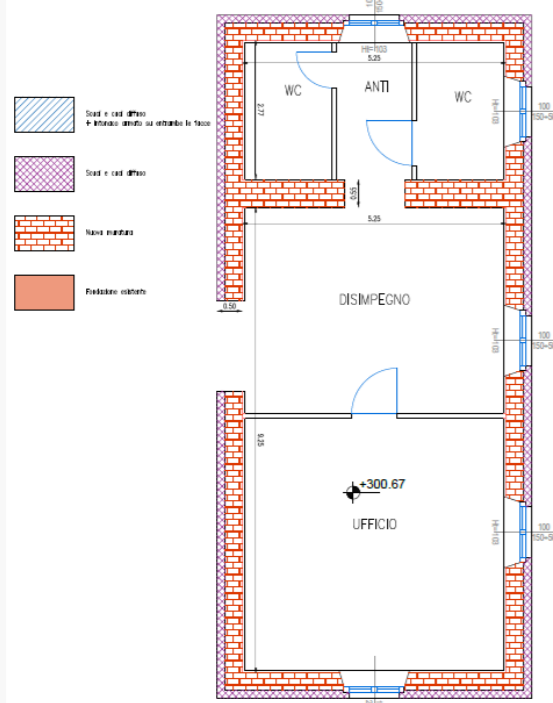


Sforzo N

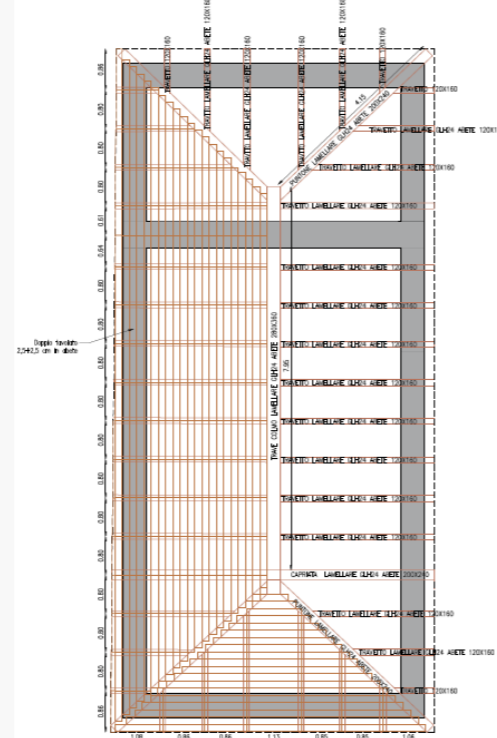
Sforzo Taglio

Momenti

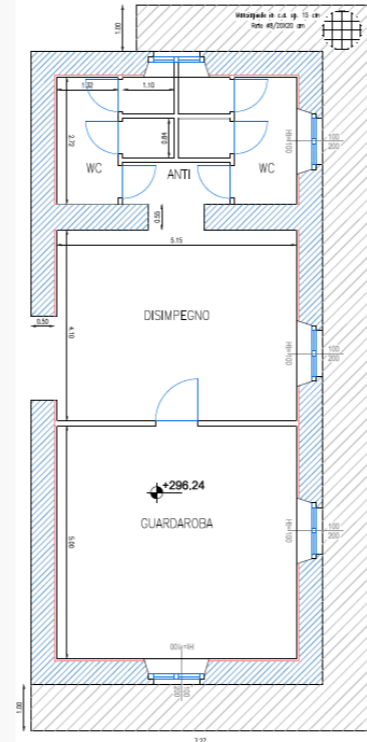
MURATURE PIANO PRIMO (2° elevazione)
 SCALA 1:50



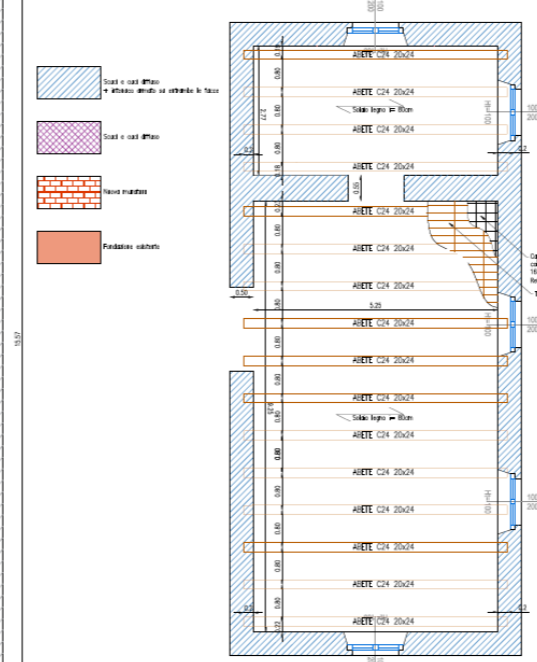
CARPENTERIA DELLA COPERTURA
 SCALA 1:50



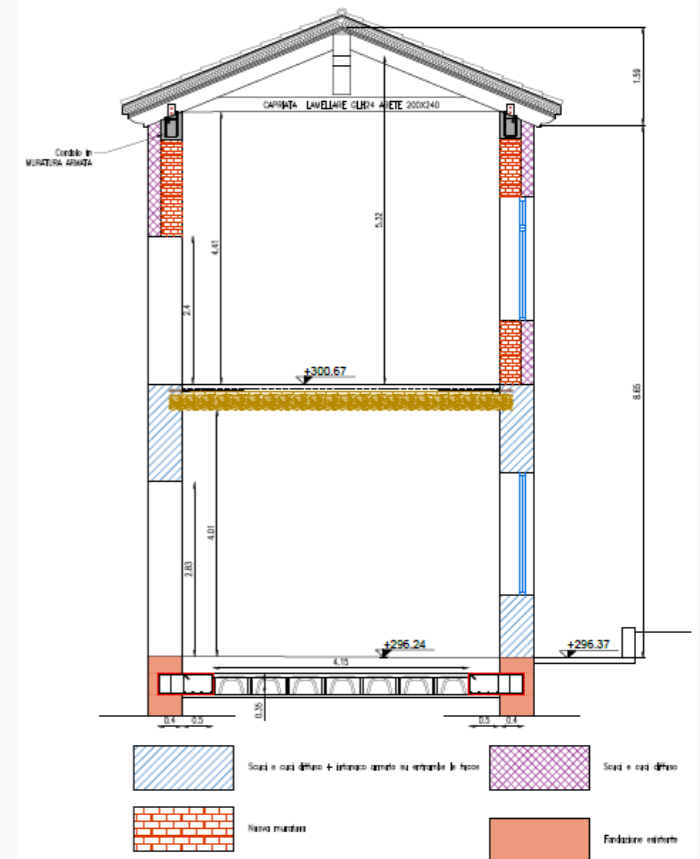
MURATURE PIANO TERRA (1° elevazione)
 SCALA 1:50



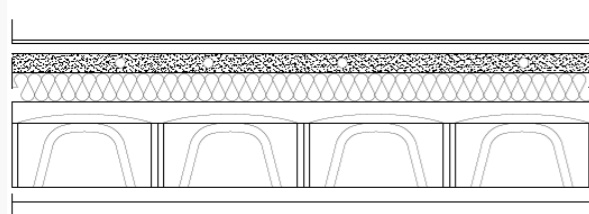
CARPENTERIA SOLAIO Q=+300.67 (q.f.)
 SCALA 1:50



SEZIONE
 SCALA 1:50

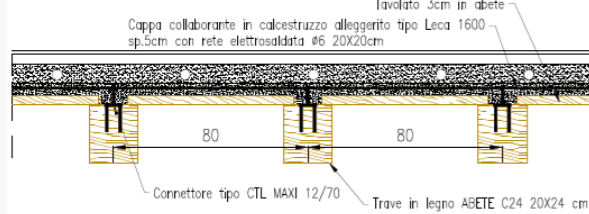


SOLAIO QUOTA +296.24 (q.f.)
 SCALA 1:10



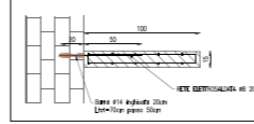
DALL'ALTO VERSO IL BASSO
 pavimentazione - sp.1.5cm
 massetto di allettamento - sp.4cm
 massetto degli impianti - sp.8cm
 isolamento termico polistirene estruso - sp. 12cm
 vespaio aereo con casseri a perdere tipo igloo - sp.30+5cm
 magro -sp.6cm

SOLAIO QUOTA +300.67 (q.f.)
 SCALA 1:10



DALL'ALTO VERSO IL BASSO
 pavimentazione - sp.1.5cm
 massetto di allettamento - sp.4cm
 massetto degli impianti - sp.8cm
 caldaia armata - sp. 5cm
 tavolato - sp. 3cm
 trave in legno ABETE C24 20x24

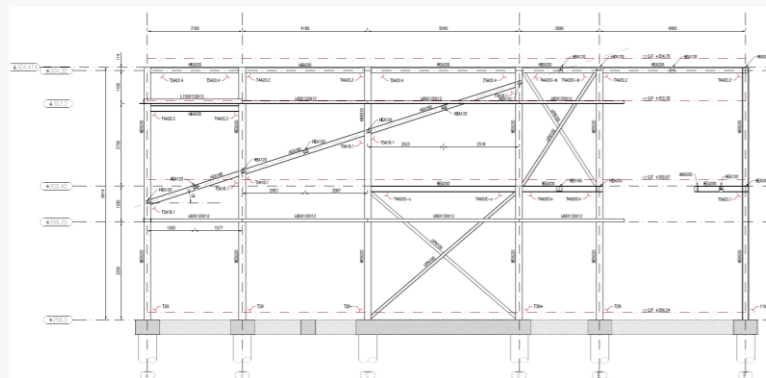
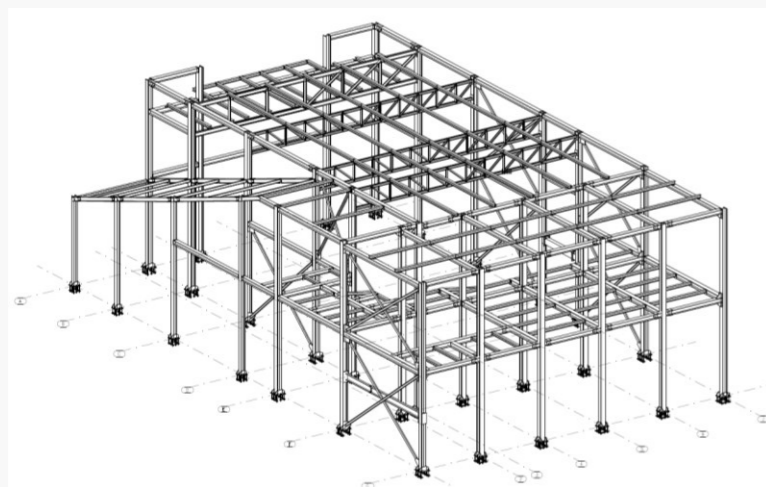
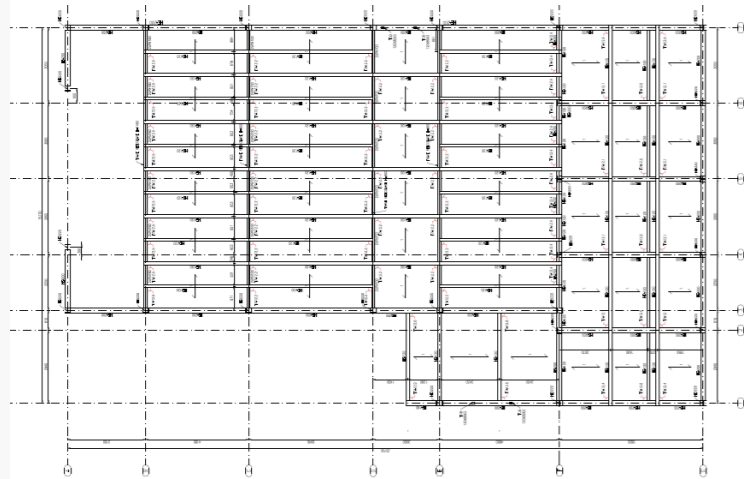
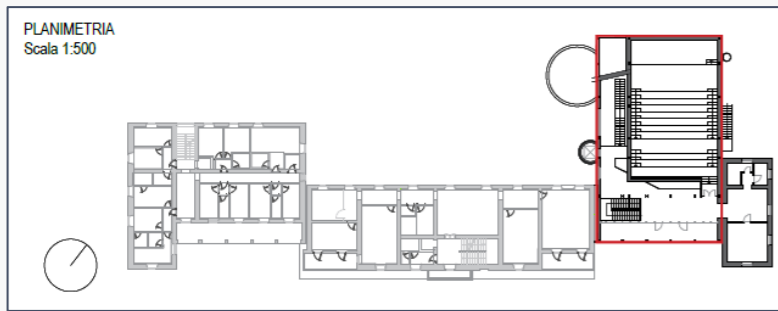
DETTAGLIO MARCIAPIEDE
 scala 1:20



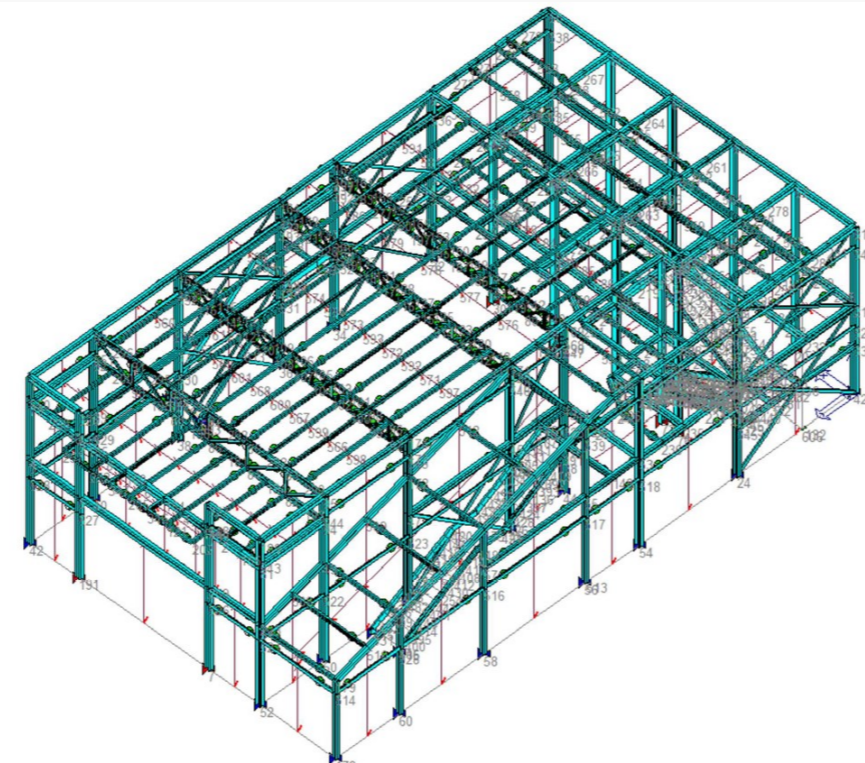
SOLAIO COPERTURA
 SCALA 1:10



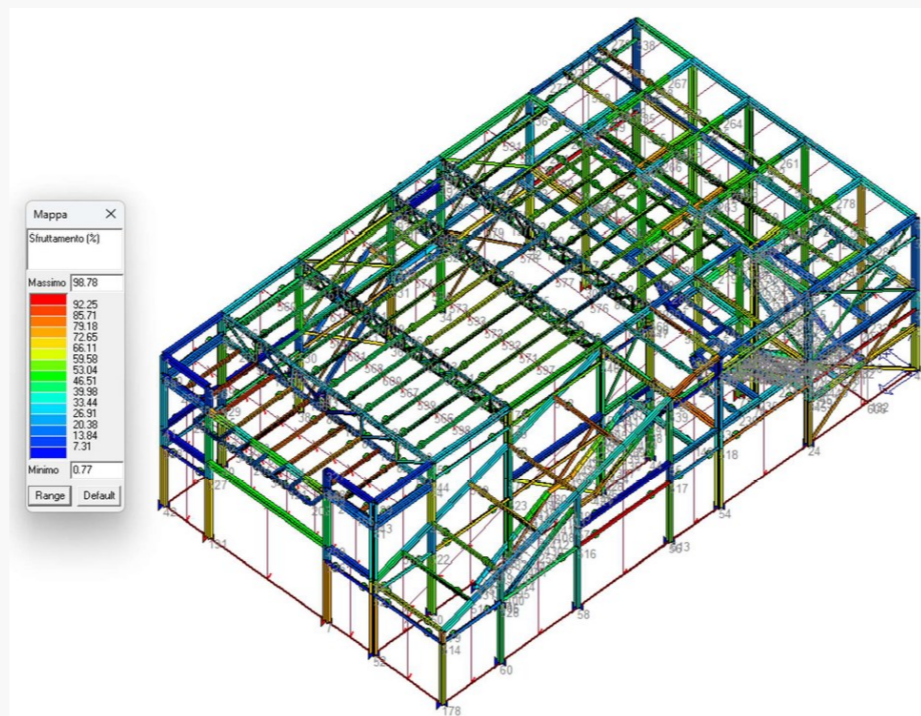
DALL'ALTO VERSO IL BASSO
 cappa di carpenteria
 impermeabilizzazione in guaina bituminosa ondulata - sp. 0.4cm
 DSD 18
 isolamento termico in lana di roccia - sp.14cm
 barriera al vapore
 doppio tavolato in abete - sp. 2.5x2.5cm
 struttura portante in legno



AUDITORIUM

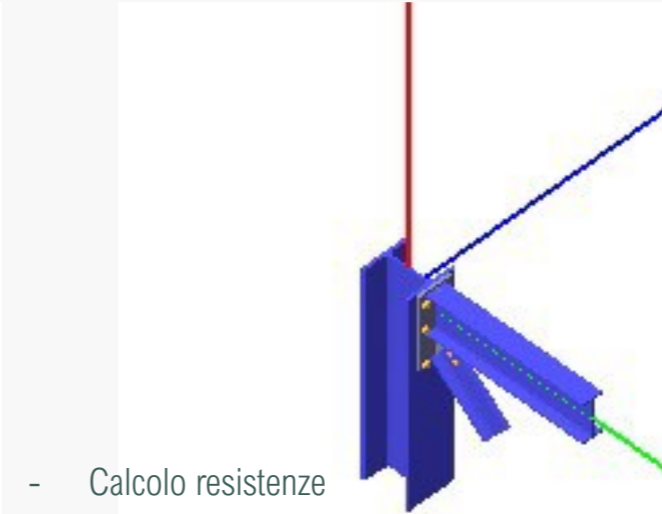


Valutazione complessiva dello stato di verifica della struttura
 (In ciano gli elementi in acciaio, che risultano tutti progettati e verificati).

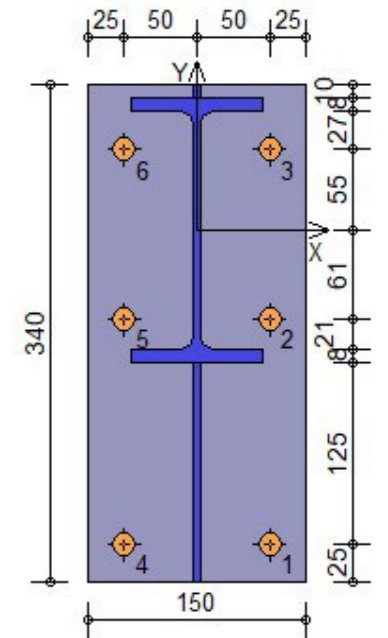


Sfruttamento delle sezioni (98,78 %)

VERIFICA DEI COLLEGAMENTI IN ACCIAIO

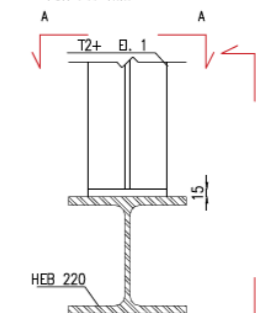


- Calcolo resistenze
- Verifiche sui bulloni
- Verifiche saldature profilo-flangia (versione beta)
- Verifica del momento di progetto del giunto



NODO T4U18C-
 Scala 1:10

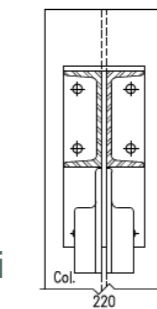
- (T2+) El. 1 2 UPN 180 Acciaio S275 Viti cl. 8.8 Dadi 8 o 10 Diametro 16 mm
 Materiale flangia e nervature: Acciaio S275 Saldature spessore 7 mm Nervature spessore 15 mm
- (C3) El. 9 CONTROVENTO 2L 100X50X10 Acciaio S275 Viti cl. 8.8 Dadi 8 o 10 Diametro 16 mm
 Materiale flangia e nervature: Acciaio S275 Saldature spessore 8 mm Nervature spessore 10 mm
 Fori Ø17 mm



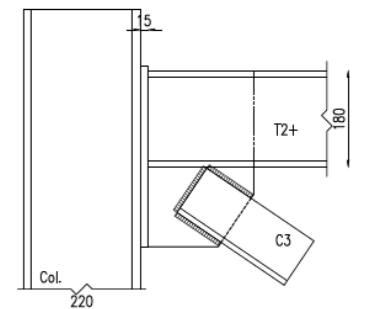
Col. HEB 220 Acciaio S275

Flangia Trave T2+ (spessore 15 mm)

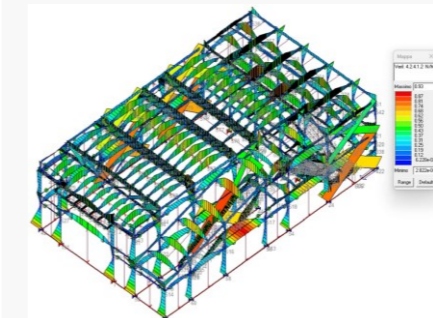
Pianta Vista A - A T2+



Vista lato B - B



Sforzo normale (INVILUPPO SLU)



Verifica per sforzo normale-momenti