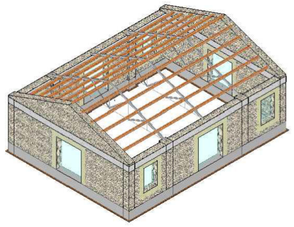
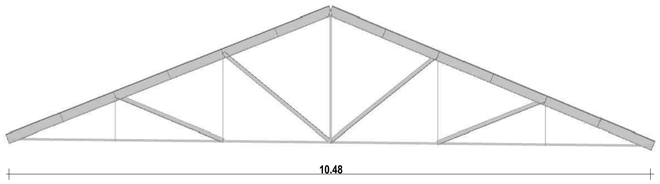
Modello 3D

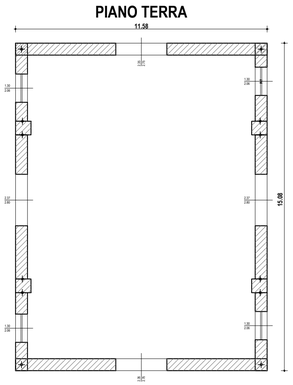


MURATURA

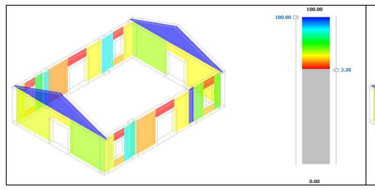
Modello capriata



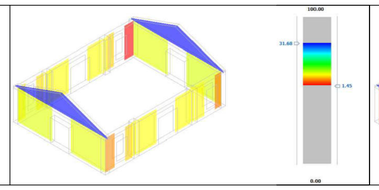
Carpenteria P0



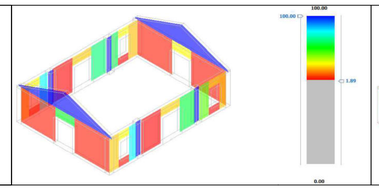
ANALISI STATICA



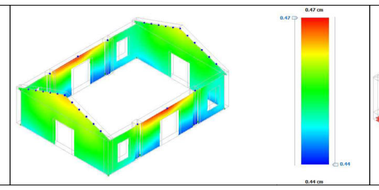
C.s. PFP



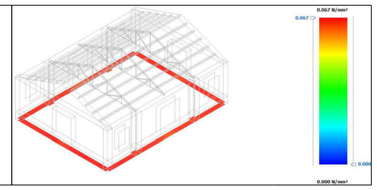
C.s. PFF



C.s. TNP

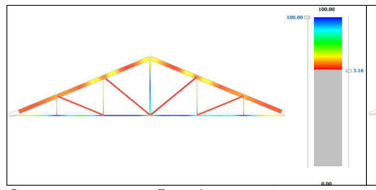


Spostamento per carichi statici

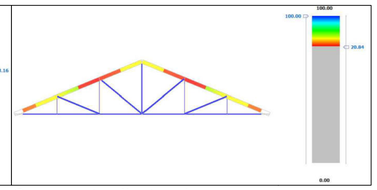


Tensioni terreno per carichi verticali

CAPRIATA

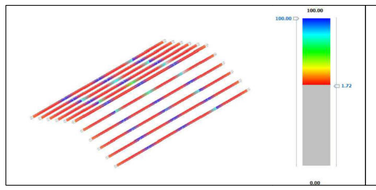


C.s. per pressoflessione

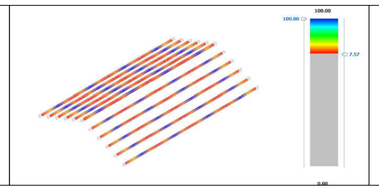


C.s. per taglio-torsione

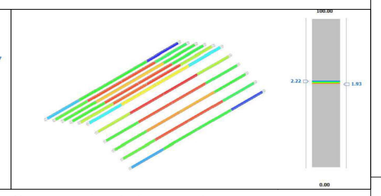
ORDITURA SECONDARIA



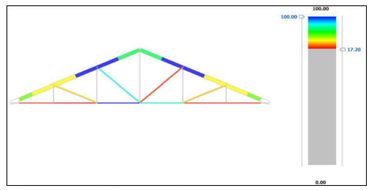
C.s. per pressoflessione



C.s. per il taglio

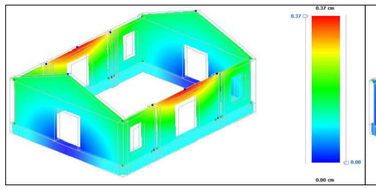


C.s. per la deformazione

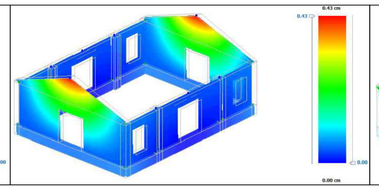


C.s. per deformazione

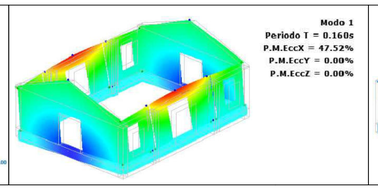
ANALISI SISMICA



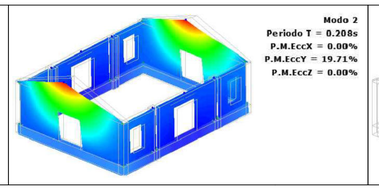
Spostamento sismico allo SLD lungo X



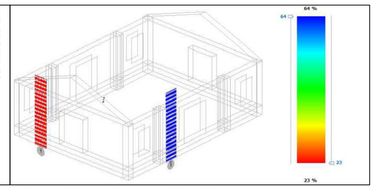
Spostamento sismico allo SLD lungo Y



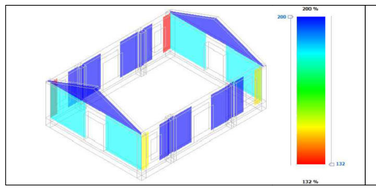
Modo 1



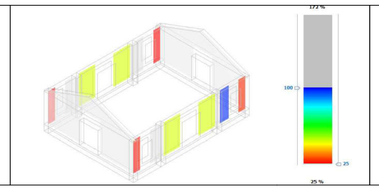
Modo 2



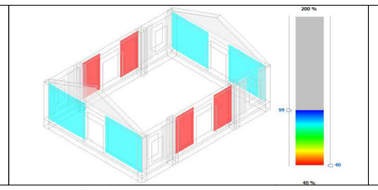
Accelerazione di collasso per cinematismo SLV PGA [%]



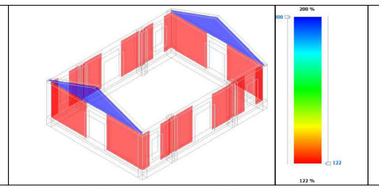
A.s.c. PFP



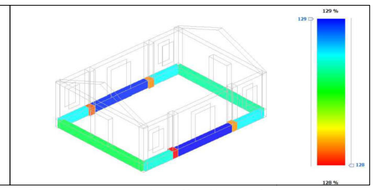
A.s.c. PFF



A.s.c. TNP



A.s.c. deformazione ultima



A.s.c. per carico limite sul terreno

TABELLA RIASSUNTIVA - PALAZZINA N

MURATURA					
MATERIALE		pietre a spacco con buona tessitura con la presenza di ricorsi o listatura			
SPESSORE		65 cm			
ringrossi		(64x72) cm			
			h	arm. long.	staffe
Cordolo		cls 20/25 235	50 cm	4 ϕ 14	ϕ 8/20
FONDAZIONE					
MATERIALE		pietre a spacco con buona tessitura con malta di caratteristiche scarse			
SPESSORE		65 cm			
TERRENO					
tipologia	angolo attr. ϕ	γ (N/cm3)	kz (N/cm3)	kx (N/cm3)	ky (N/cm3)
Limo Sabbioso	28°	18500	15	3	3

CAPRIATA	MATERIALE	SEZIONE	
Puntone	acciaio 235	IPN 160	
Catena	acciaio 355	RND 40	
Monaco	acciaio 235	RND 40	
Saette	acciaio 235	L 60x60x6	
Pendini	acciaio 355	RND 16	
Arcarecci	legno LM C24	14x17	

COPERTURA	MATERIALE	SPESSORE	q (N/m2)
tavolato	legno	2 cm	150
manto tegole			600
strato imperm.			100

ANALISI STATICA	
MURATURA	
C.S. PFP	3,28
C.S. PFF	1,45
C.S. TNP	1,89
Tens. terreno max	0,07 N/mm2
Spostamento max	0,47 cm
CAPRIATA	
C.S. Pressofless.	3,16
C.S. Taglio-Tors.	20,84
C.S. Deformaz.	17,2
ORDITURA SECONDARIA	
C.S. Pressofless.	1,72
C.S. Taglio	7,57
C.S. Deformazioni	1,93

Parametri sismici	
Ag/g	0,334
Categoria terreno	C
Classe edificio	IV
ANALISI SISMICA	
MURATURA	
Spostamento max X SLD	0,37 cm
Spostamento max Y SLD	0,43 cm
A.s.c. per cinem. SLV PGA[%]	**23** %
A.s.c. PFP	132 %
A.s.c. PFF	25 %
A.s.c. TNP	40 %
A.s.c. Deform. ultima	122 %
A.s.c. Qlim terreno	128 %

Modi di vibrare	P.M.EccX[%]	P.M.EccY[%]
Modo 1	47,52	-
Modo 2	-	19,71

Abbreviazioni utilizzate:
c.s. : coefficiente di sicurezza
PFP: pressoflessione fuori piano
PFN: pressoflessione nel piano
TNP: taglio nel piano
A.s.c.: accelerazione sismica di collasso

n. elementi con	PGA>100%	100%<PGA<60%	PGA<60%
A.s.c. PFP	22	0	0
A.s.c. PFF	14	0	8
A.s.c. TNP	14	0	8

AGENZIA DEL DEMANIO
DIREZIONE REGIONALE SICILIA

Verifiche della vulnerabilità sismica degli immobili costituenti la Caserma Masotto, sita nel Comune di Messina.
CIG: 71212999D5

T04.16 Palazzina N
Sintesi dei risultati delle analisi e verifiche

R.T.P. Raggruppamento Temporaneo Professionale

Rev.	Descrizione	Data	Redatto	Verificato	Approvato
0	Prima Emissione	Settembre 2018	Sud Progetti-ABGroup	Ing. F. Aggiato	Ing. F. Aggiato
1	Seconda Emissione				
2	Terza Emissione				
3	Quarta Emissione				

Professionisti
ing. Francesco Aggiato
ing. Matteo Accardi

Responsabile Unico del Procedimento
Dott. Federico Citarda