

Indagine Pacometrica sul calcestruzzo

Punto indagine

Sezione di riferimento

PACO1

B

PACO2

A

PACO3

E

PACO4

C

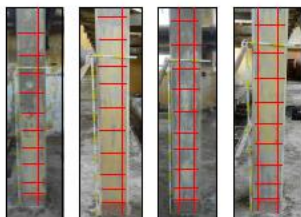
PACO5

F

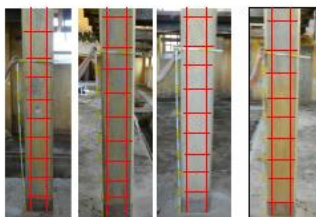
PACO6

D

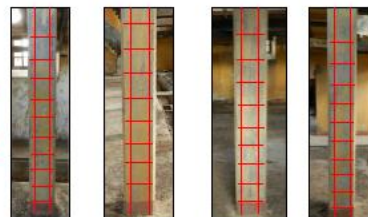
A



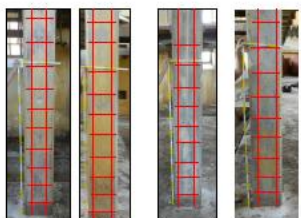
C



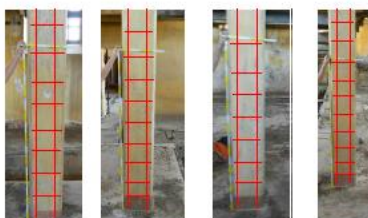
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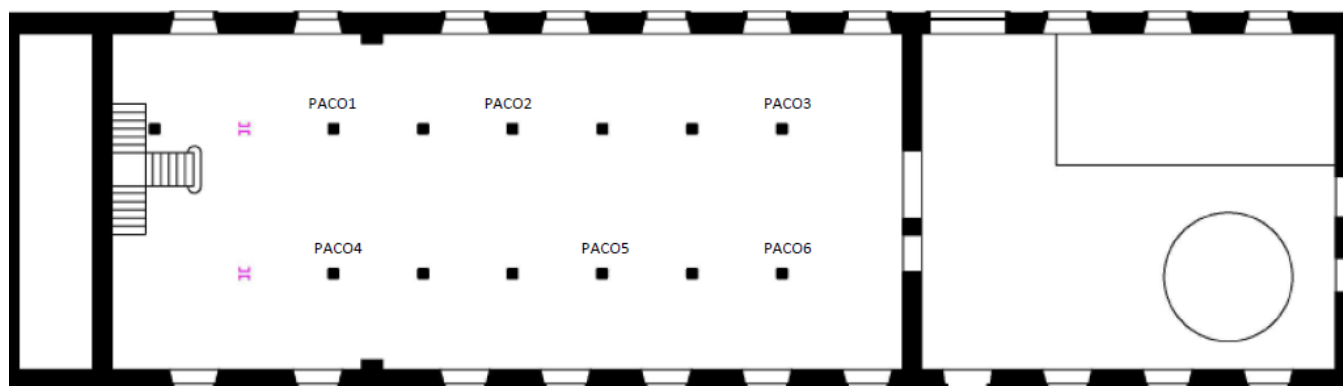
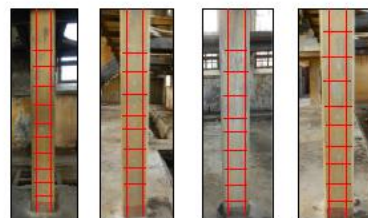
B



D

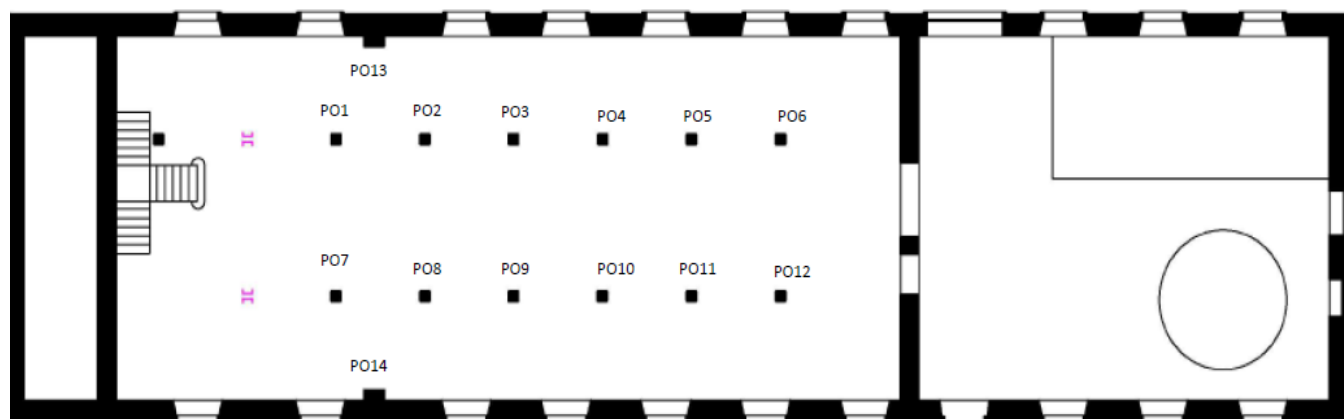


F



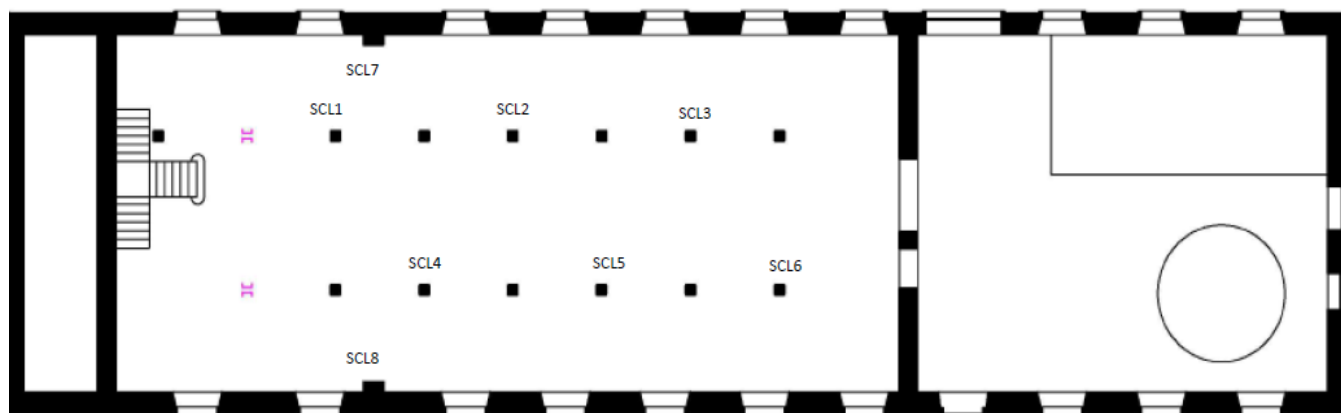
Indagine Pull-Out sul calcestruzzo

Punto indagine	Pressione misurata [Bar]	Resistenza a compressione Rmc [daN/cm ²]	Punto indagine	Pressione misurata [Bar]	Resistenza a compressione Rmc [daN/cm ²]
PO1	110	379,2	PO8	100	352,2
PO2	108	373,8	PO9	102	357,6
PO3	124	417,1	PO10	132	438,8
PO4	110	379,2	PO11	114	390,1
PO5	118	400,9	PO12	86	314,3
PO6	128	427,9	PO13	60	244,0
PO7	112	384,7	PO14	86	314,3



Indagine Sclerometrica sul calcestruzzo

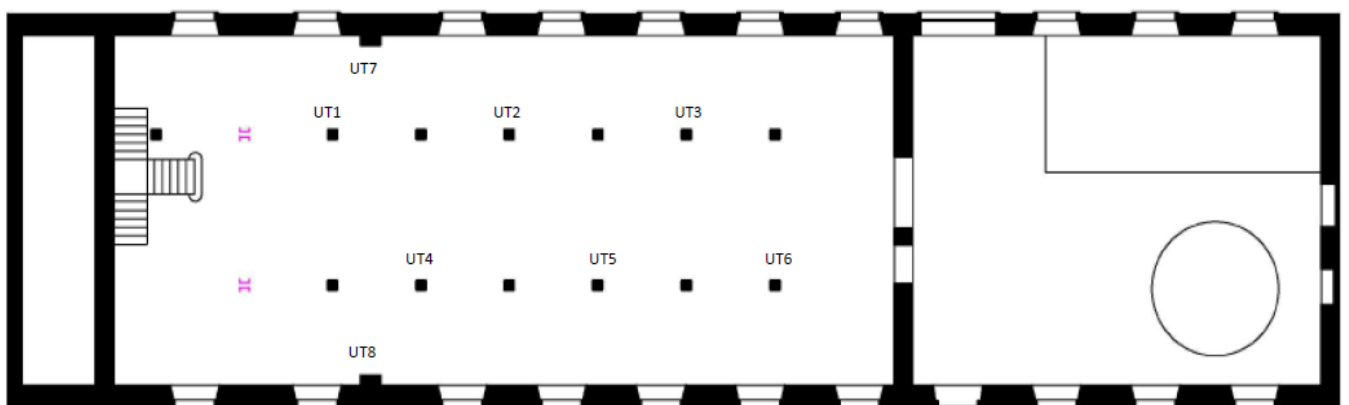
Punto Indagine	Resistenza a compressione R_{mc} [daN/cm ²]
SCL1	540
SCL2	640
SCL3	700
SCL4	680
SCL5	420
SCL6	600
SCL7	900
SCL8	780



Indagine Ultrasonica sul calcestruzzo

Punto indagine	Velocità media V_p [m/s]
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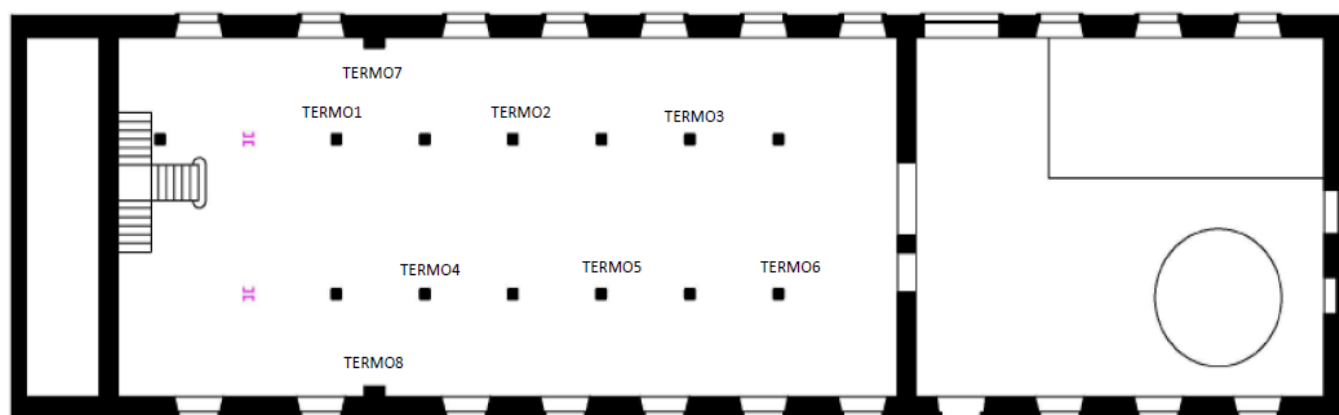
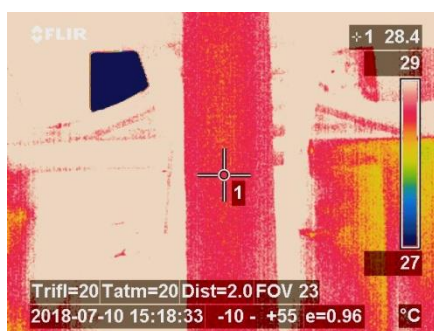
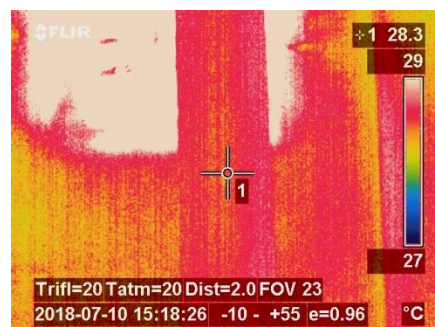
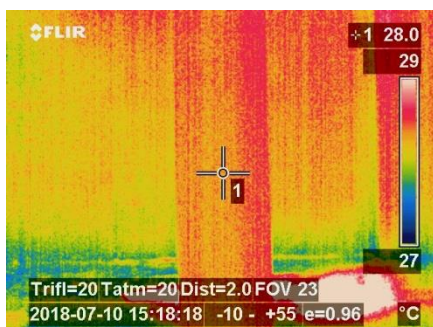
UT1	3560
UT2	3594
UT3	3590
UT4	3575
UT5	3605
UT6	3516
UT7	2779
UT8	3277



Indagine Termografica sul calcestruzzo

Punto indagine

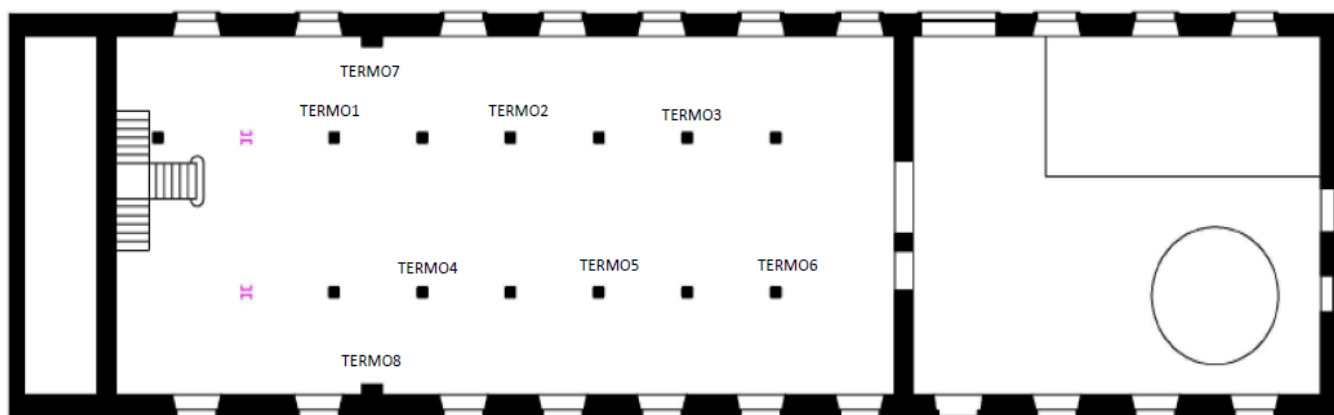
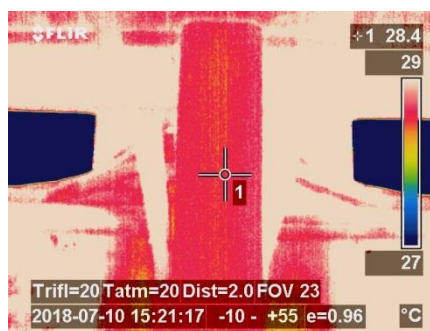
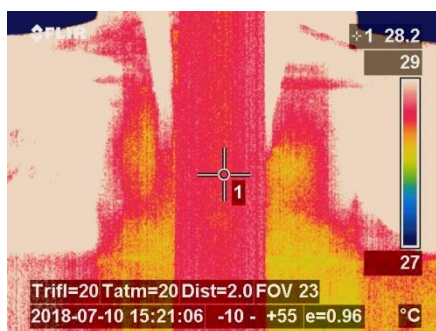
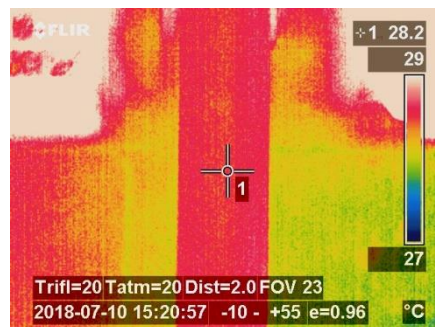
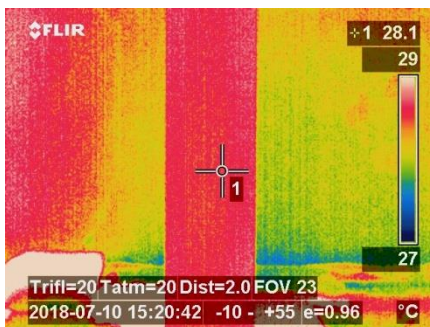
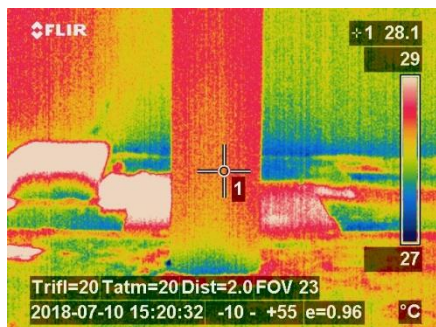
TERMO1



Indagine Termografica sul calcestruzzo

Punto indagine

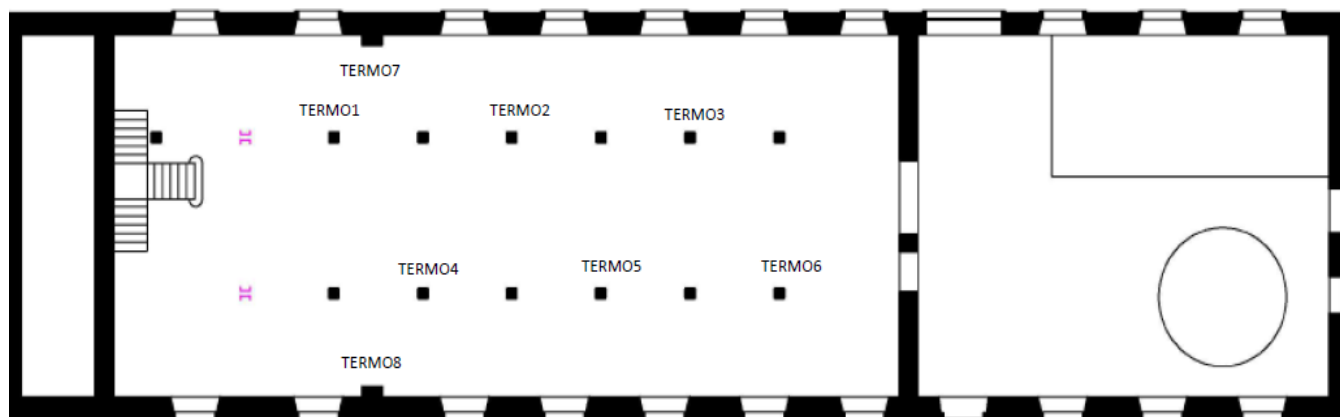
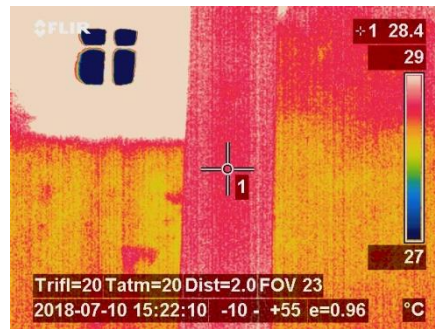
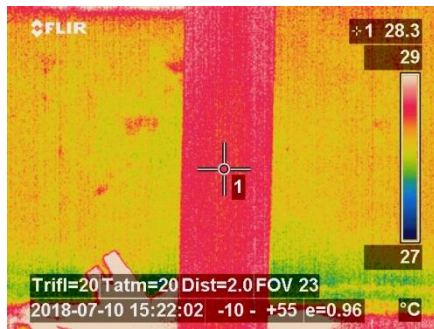
TERMO2



Indagine Termografica sul calcestruzzo

Punto indagine

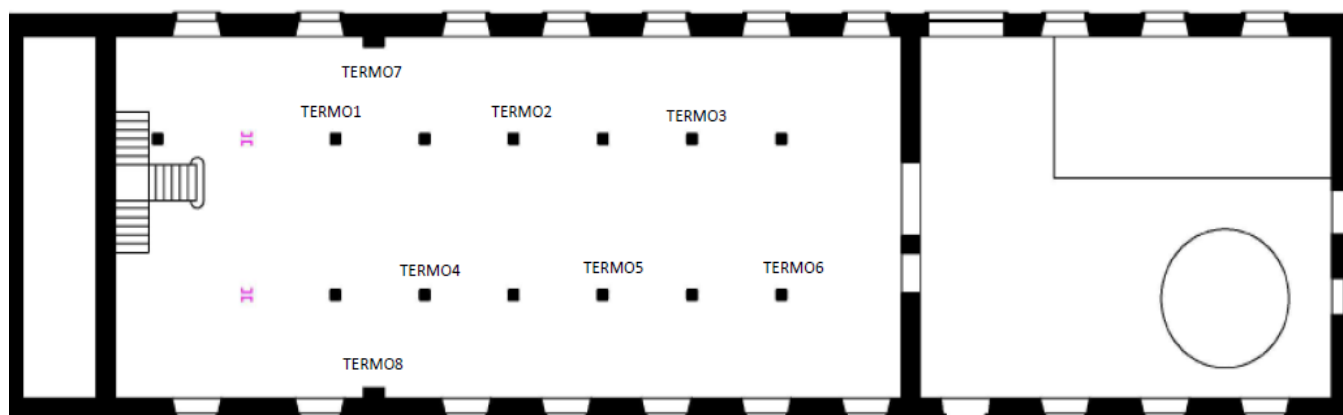
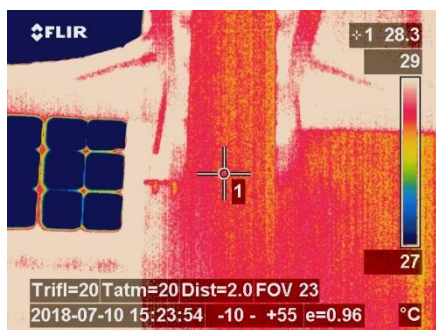
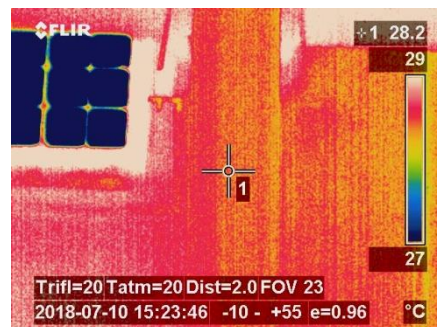
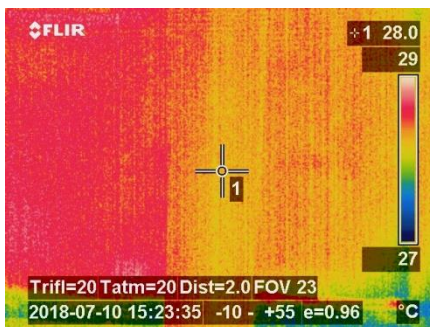
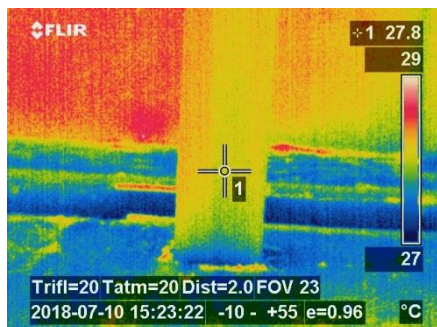
TERMO3



Indagine Termografica sul calcestruzzo

Punto indagine

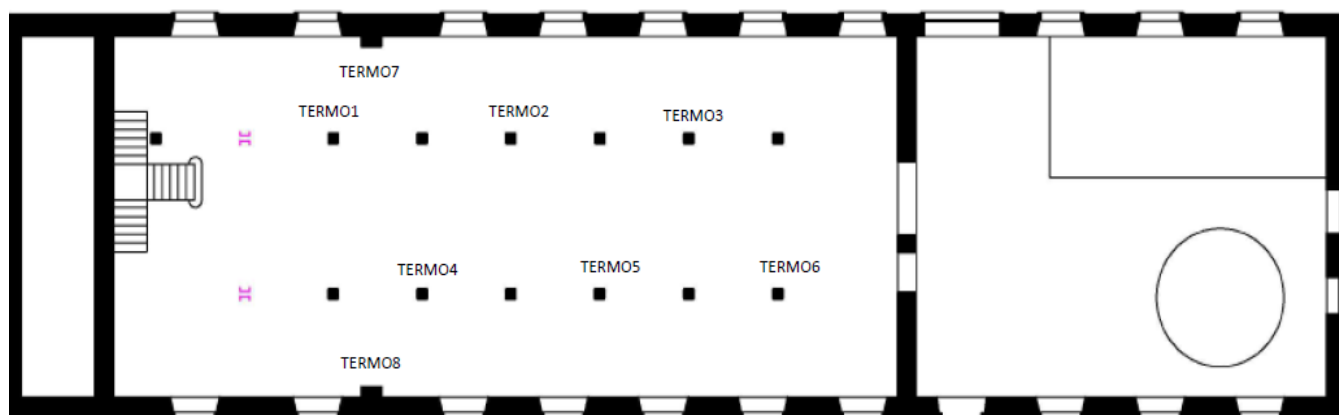
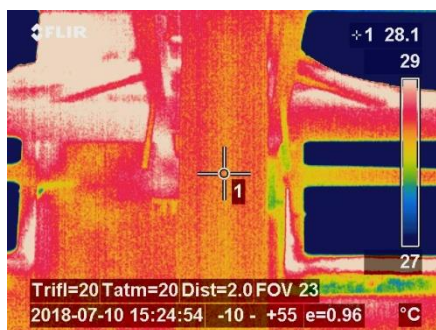
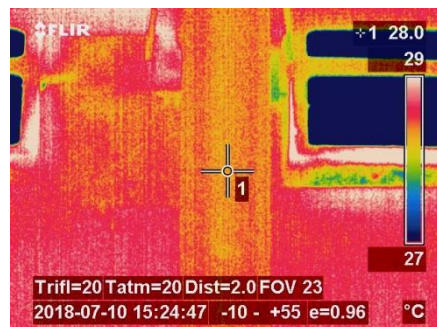
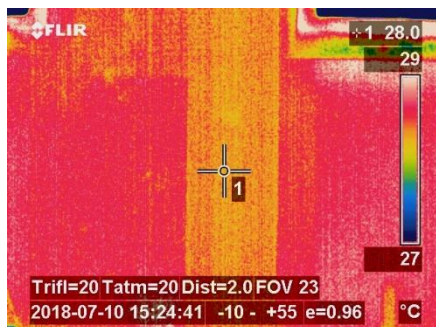
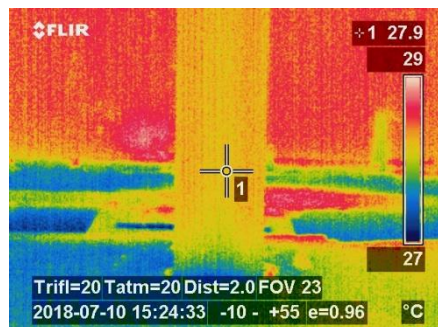
TERMO4



Indagine Termografica sul calcestruzzo

Punto indagine

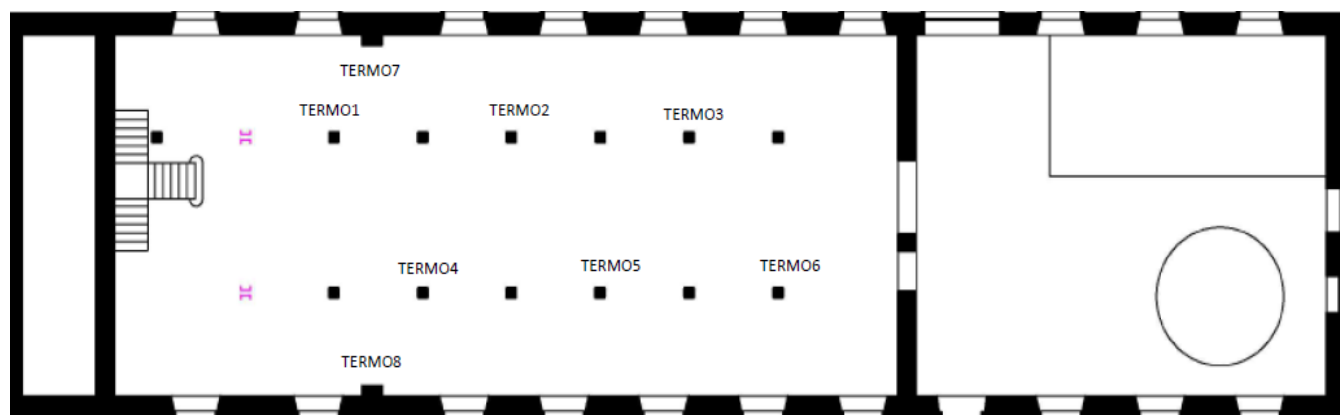
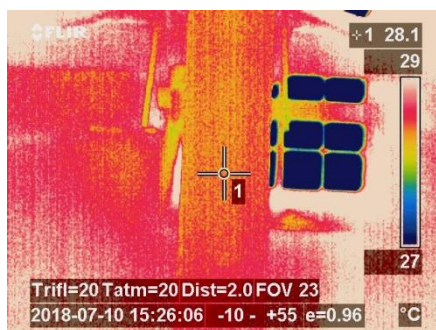
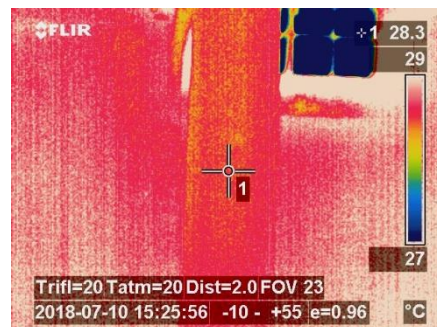
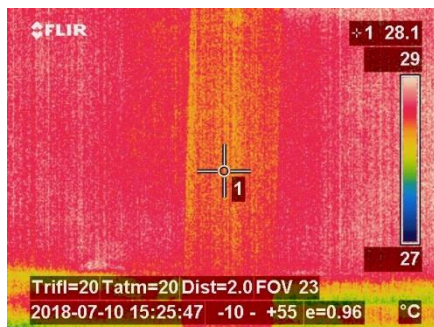
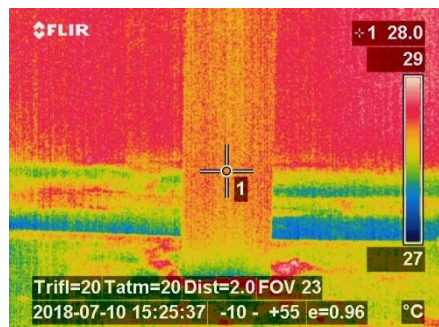
TERMO5



Indagine Termografica sul calcestruzzo

Punto indagine

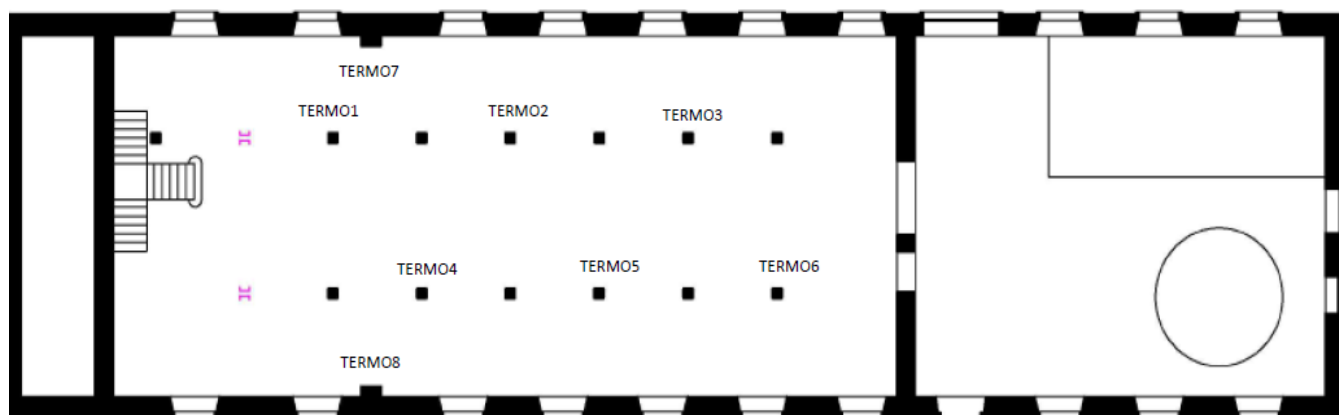
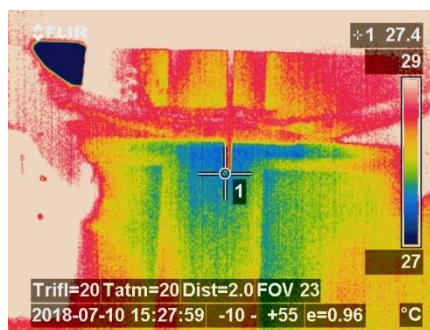
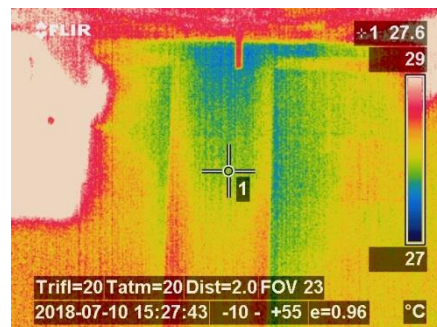
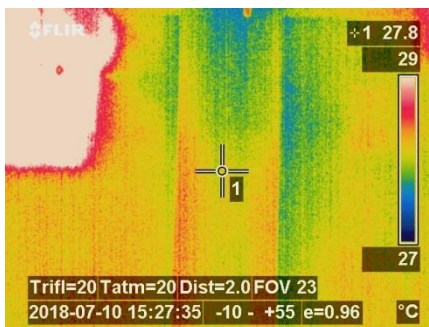
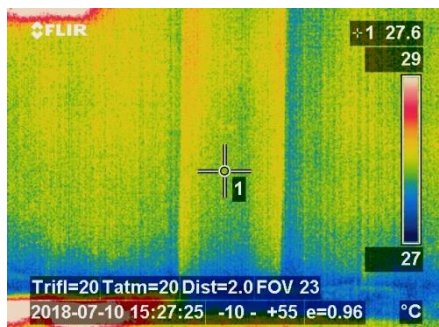
TERMO6



Indagine Termografica sul calcestruzzo

Punto indagine

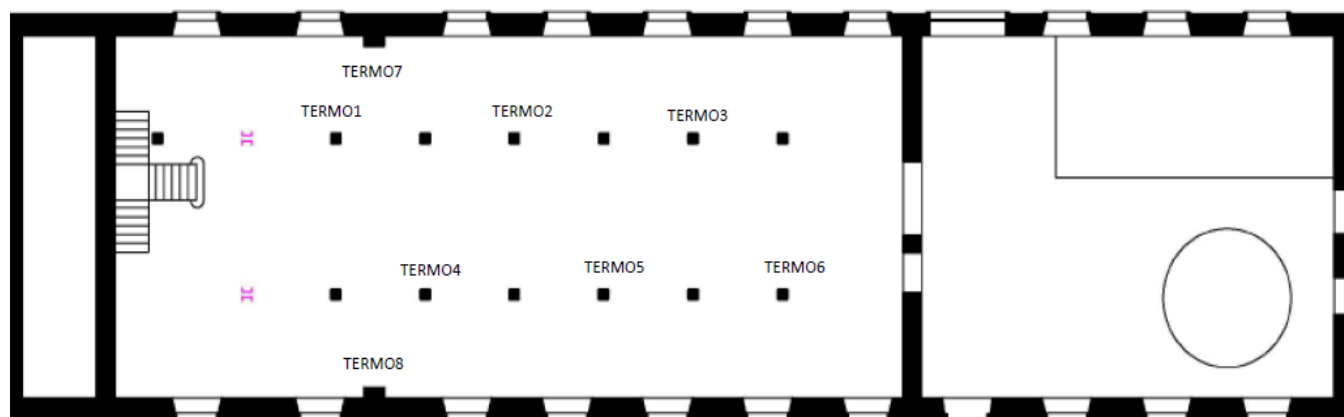
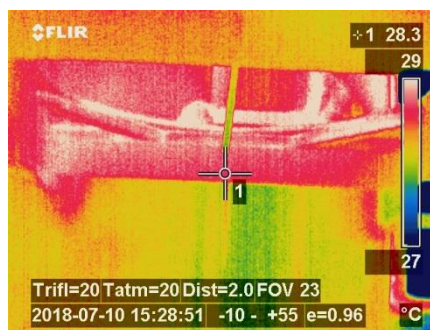
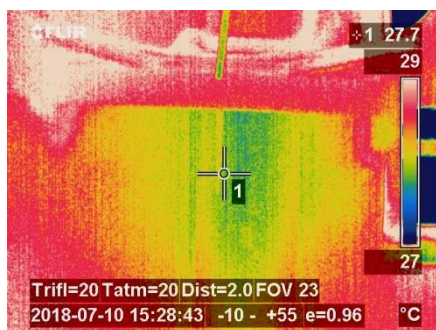
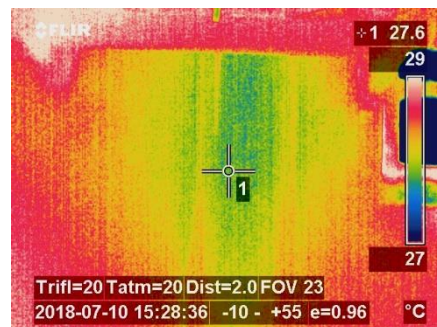
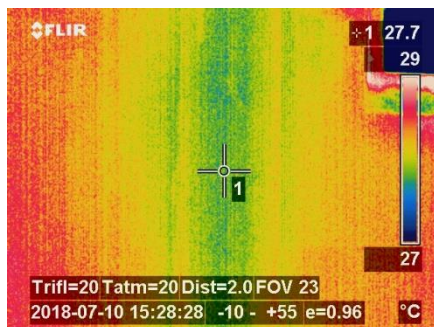
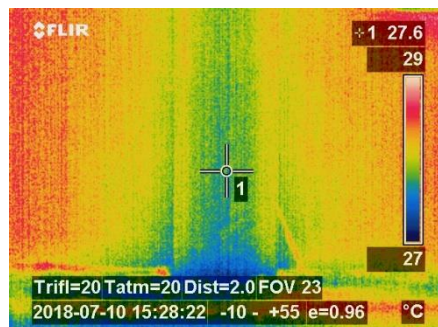
TERMO7



Indagine Termografica sul calcestruzzo

Punto indagine

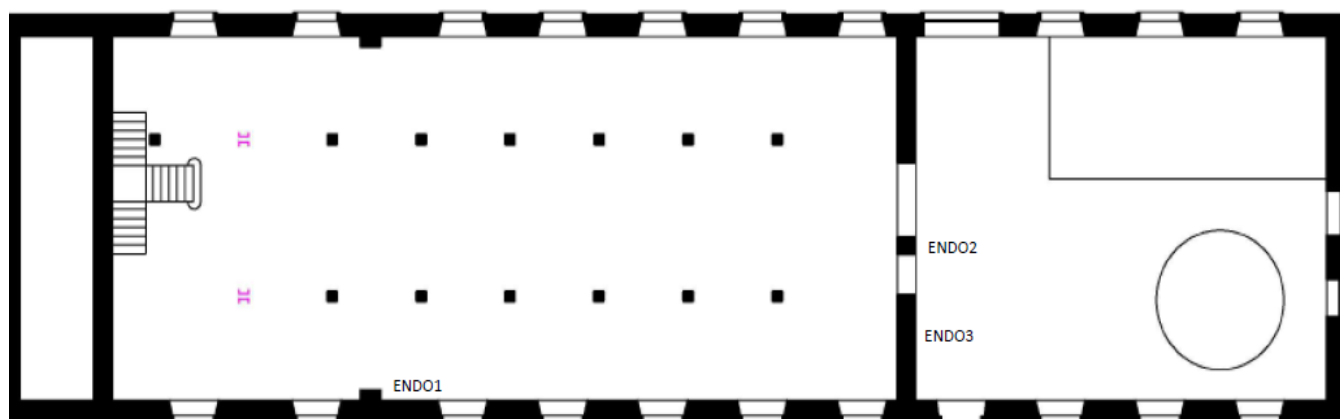
TERMO8



Indagine Endoscopica sulla muratura

Punto indagine

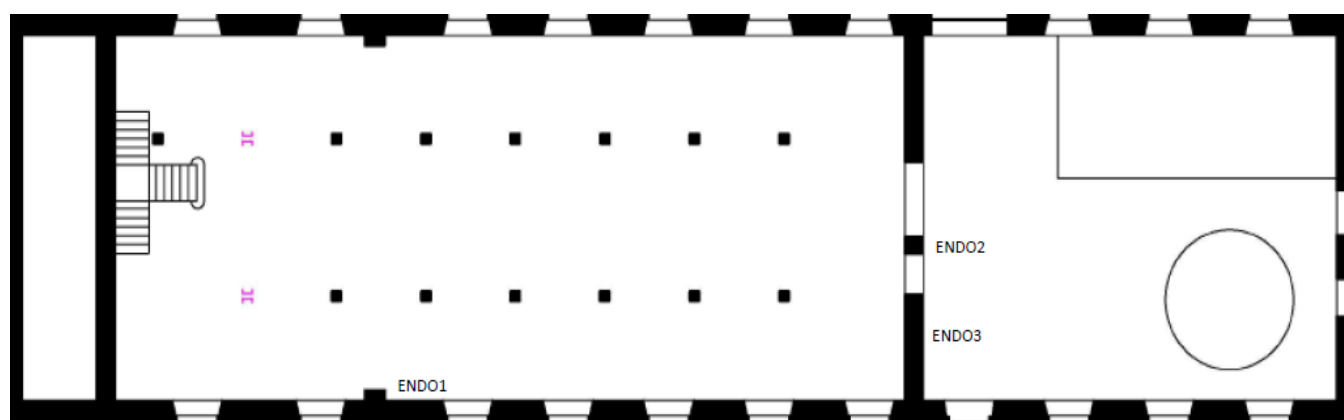
ENDO1



Indagine Endoscopica sulla muratura

Punto indagine

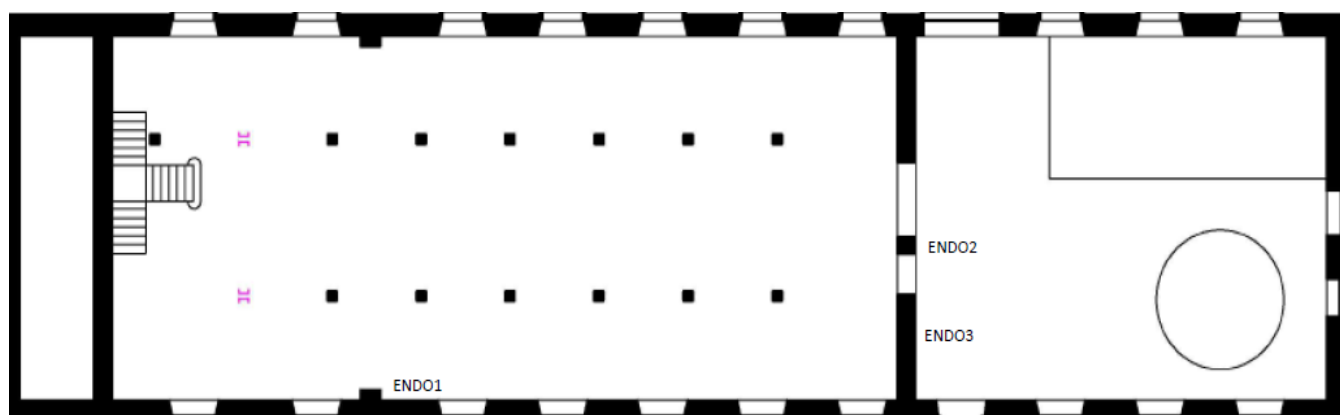
ENDO2



Indagine Endoscopica sulla muratura

Punto indagine

ENDO3



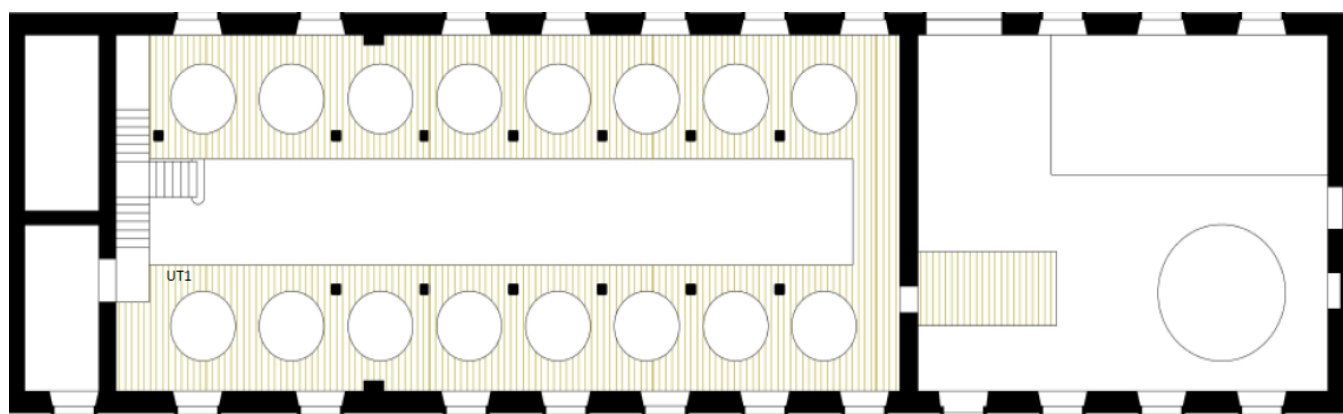
Indagine Ultrasonica sul legno

**Punto
indagine**

UT1

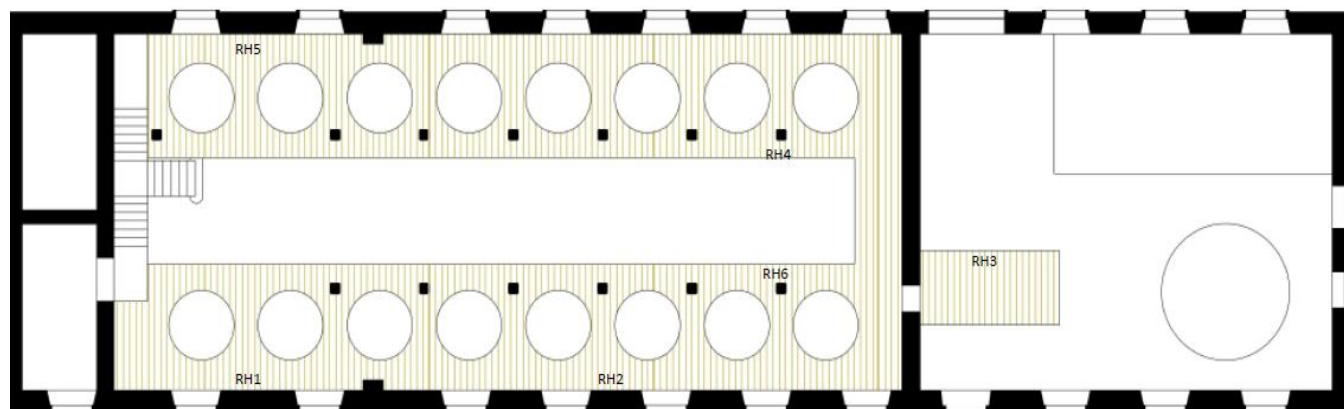
**Velocità media
[m/s]**

1566



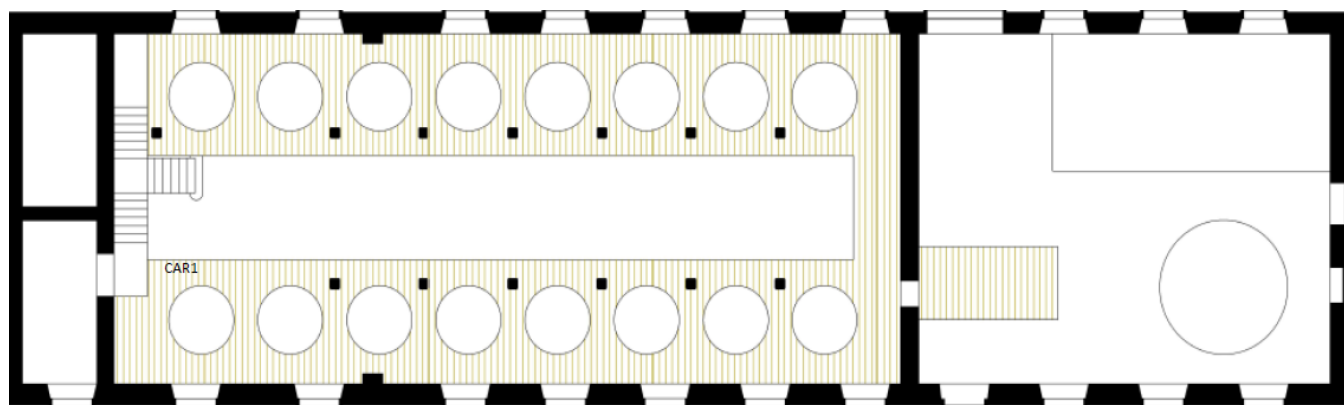
Misura dell'Umidità e della Temperatura sul legno

Punto indagine	Umidità [%]	Temperatura [°C]
RH1	16,5	31,7
RH2	16,8	31,2
RH3	15,3	32,0
RH4	17,8	31,9
RH5	19,2	31,8
RH6	19,1	31,4
Valore medio	17,5	31,7



Carotaggio sul legno

Punto indagine	Altezza carota [mm]	Diametro [mm]
CAR1	36	60



Indagine Termografica sul legno

Punto indagine

TERMO1

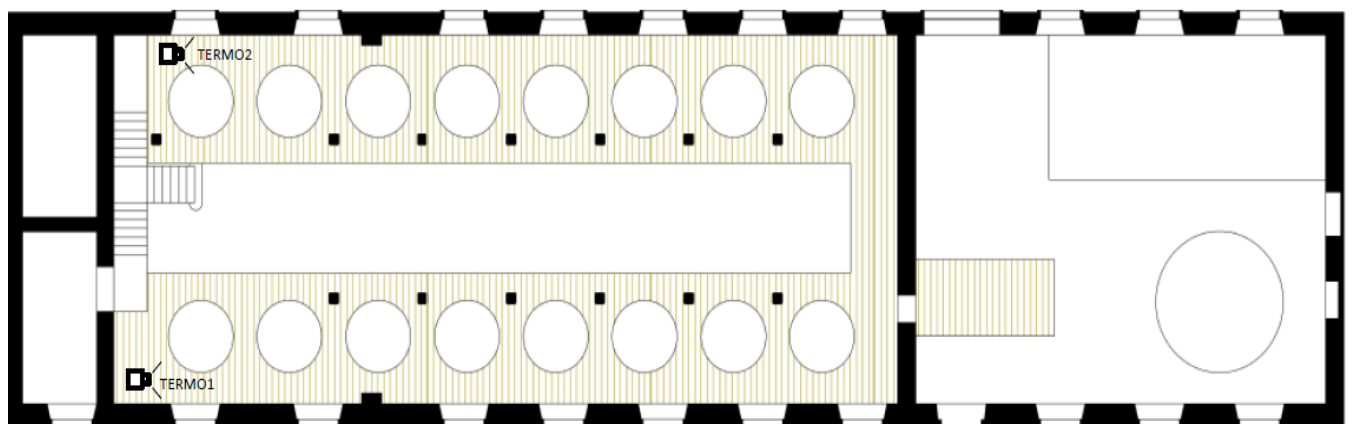
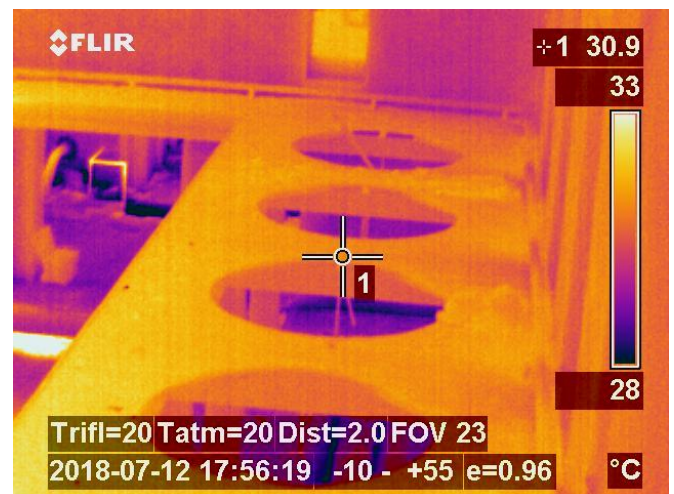


Tavola PR10a

12-07-2018

Indagine Termografica sul legno

Punto indagine

TERMO2

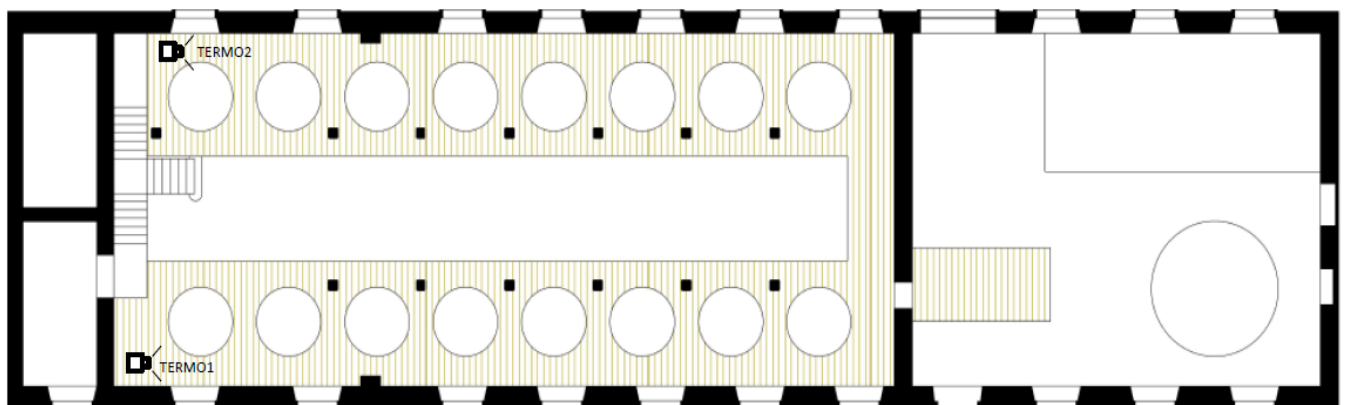
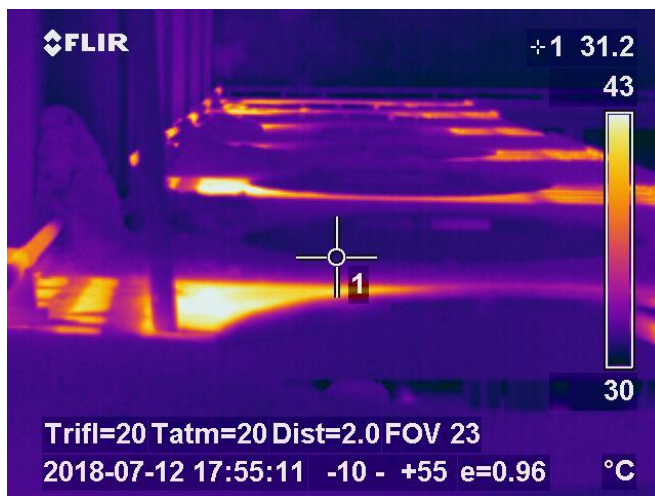


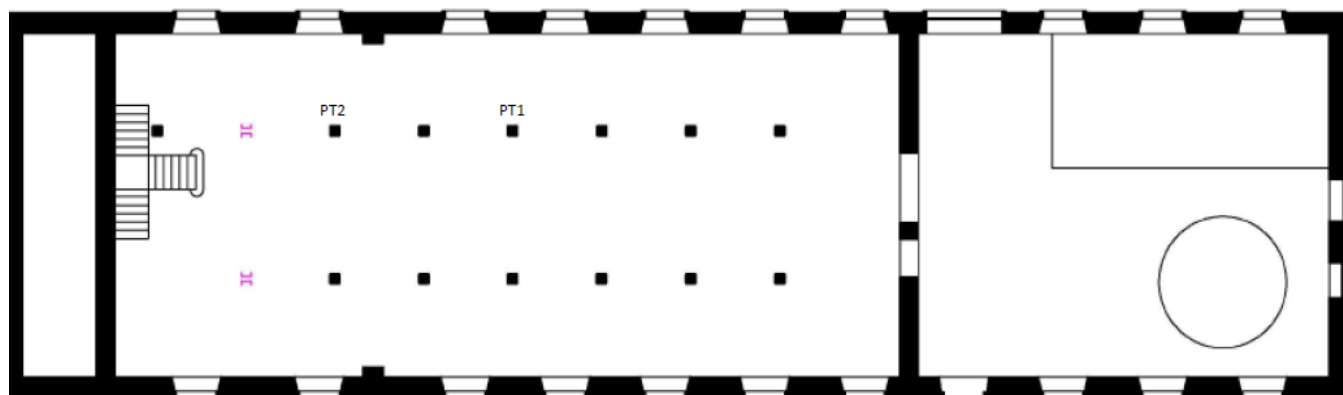
Tavola PR10b

12-07-2018

Rilievo del potenziale di corrosione

Punto indagine	Misura [mV]	Potenziale misurato [mV]	Punto indagine	Misura [mV]	Potenziale misurato [mV]
PT1	1	20	PT2	1	11
	2	41		2	40
	3	38		3	36
	4	29		4	51
	5	70		5	40
	6	62		6	49
	7	58		7	46
	8	60		8	49
Potenziale medio [mV]		47,25	Potenziale medio [mV]		40,25

I valori del potenziale riportati in questa scheda sono stati eseguiti sui due pilastri PT1 e PT2. L'indagine è stata condotta misurando il potenziale dalla base verso l'alto.



Indagine Georadar sul calcestruzzo

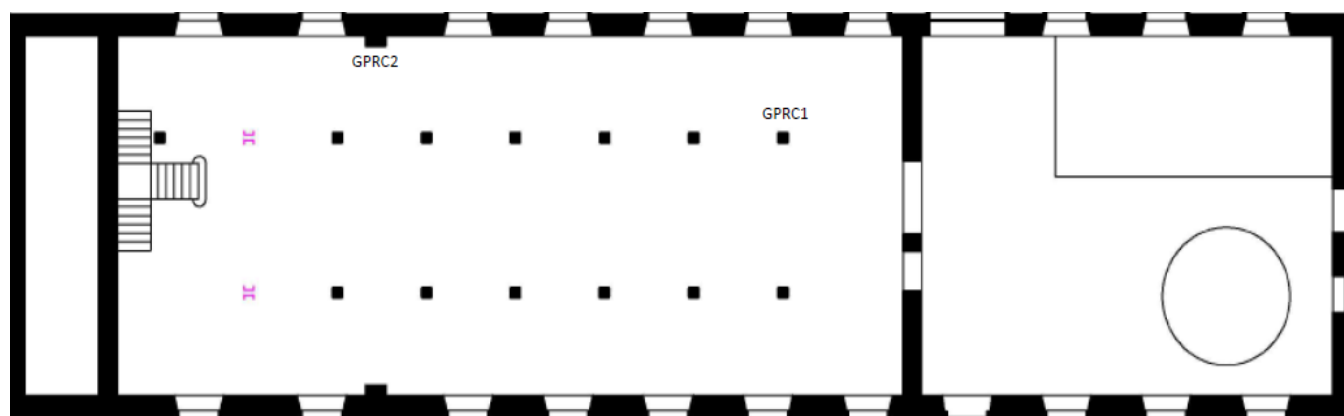
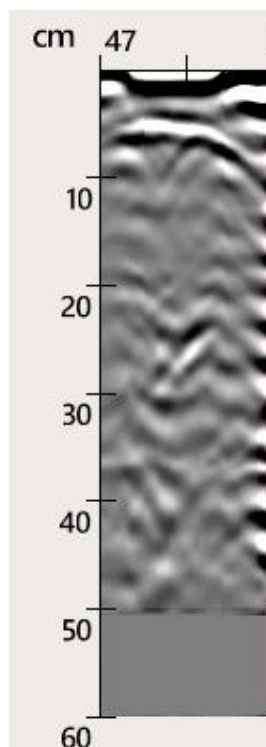
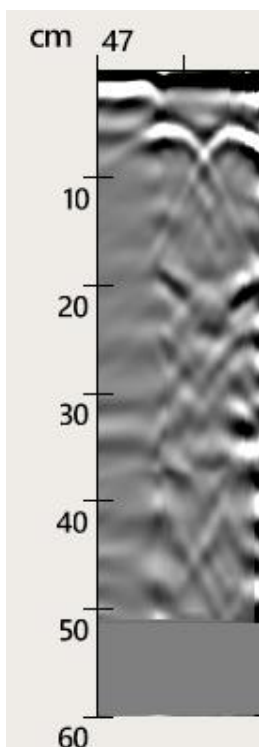
Punto indagine

GPRC1

Sezione orizzontale

Polarizzazione orizzontale

Polarizzazione verticale



Indagine Georadar sul calcestruzzo

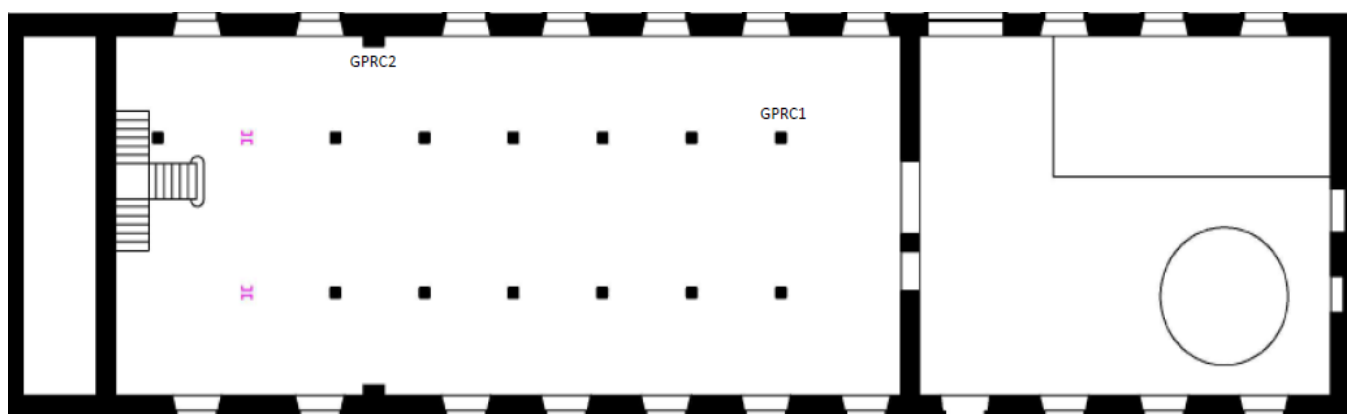
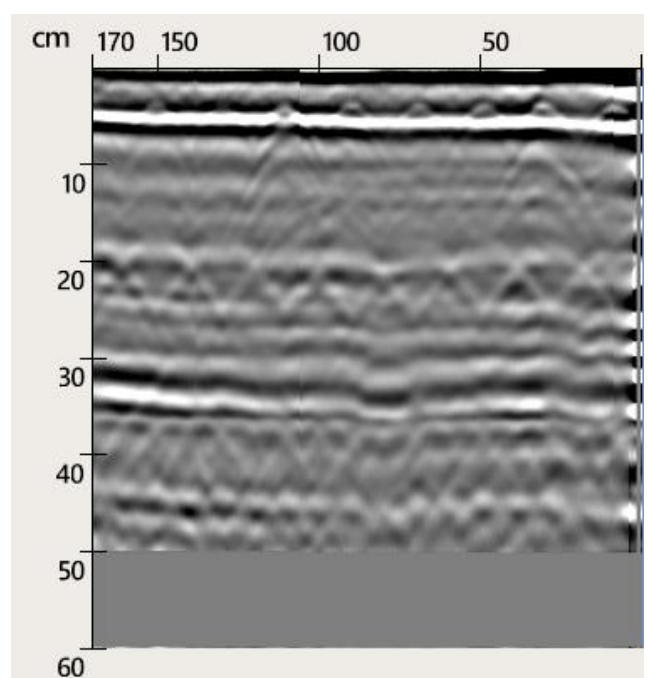
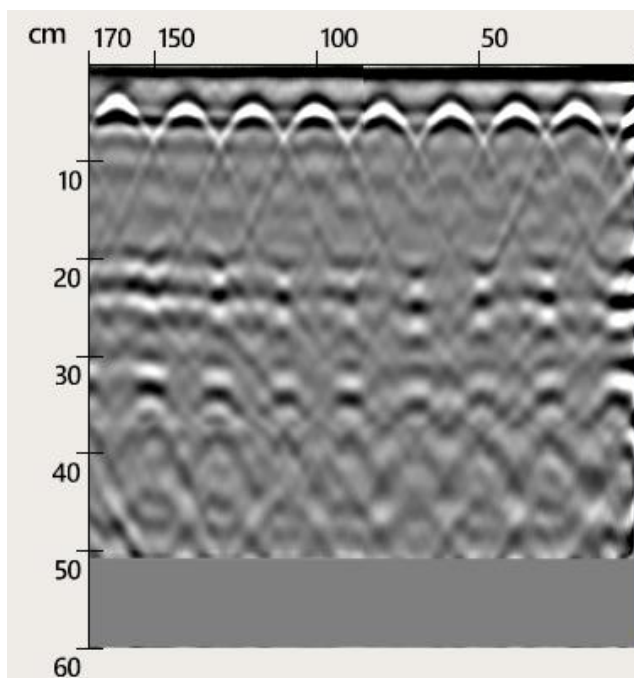
Punto indagine

GPRC1

Sezione verticale

Polarizzazione orizzontale

Polarizzazione verticale



Indagine Georadar sul calcestruzzo

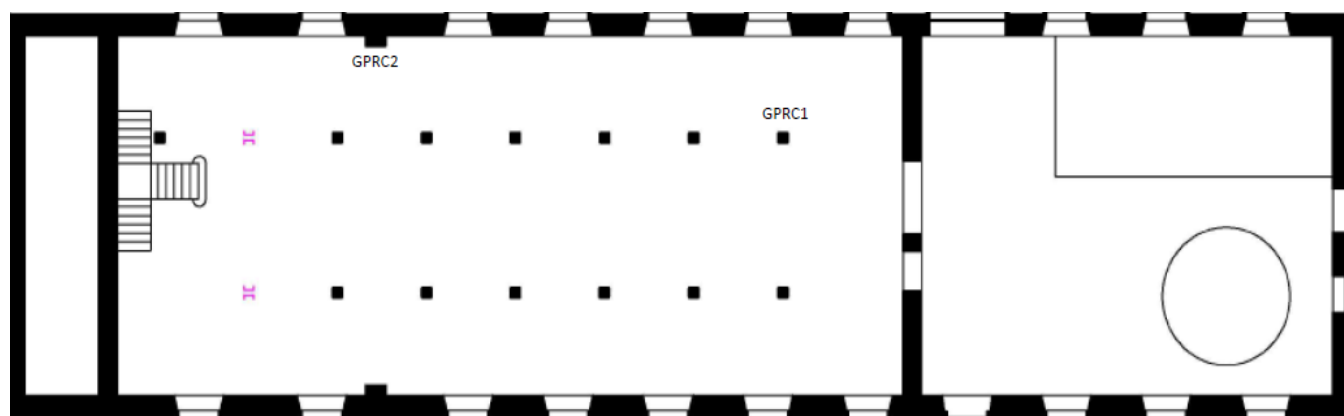
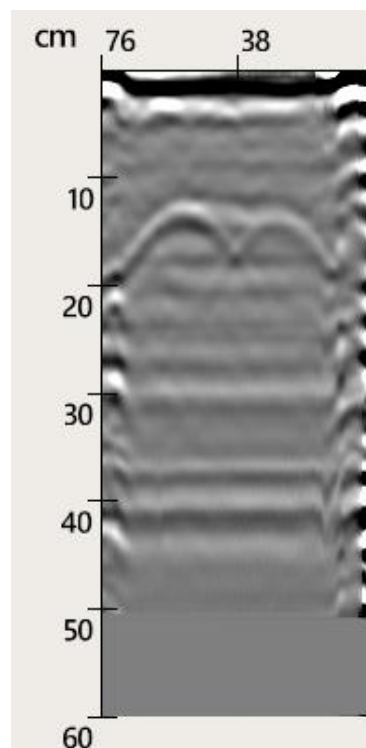
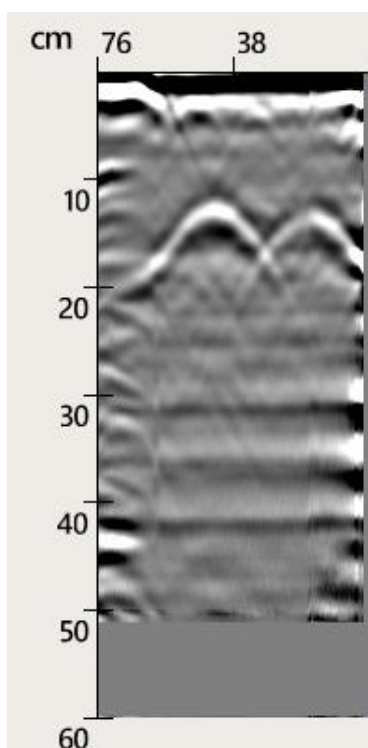
Punto indagine

GPRC2

Sezione orizzontale

Polarizzazione orizzontale

Polarizzazione verticale



Indagine Georadar sulle calcestruzzo

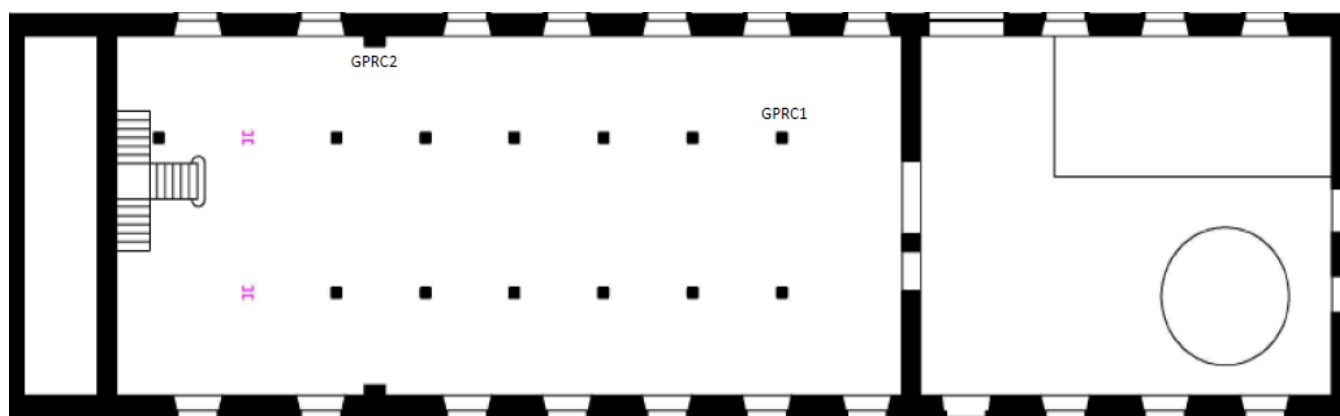
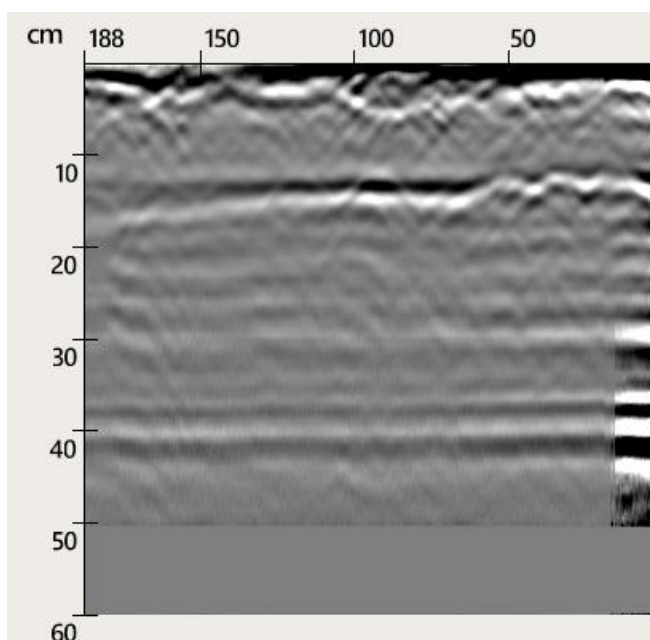
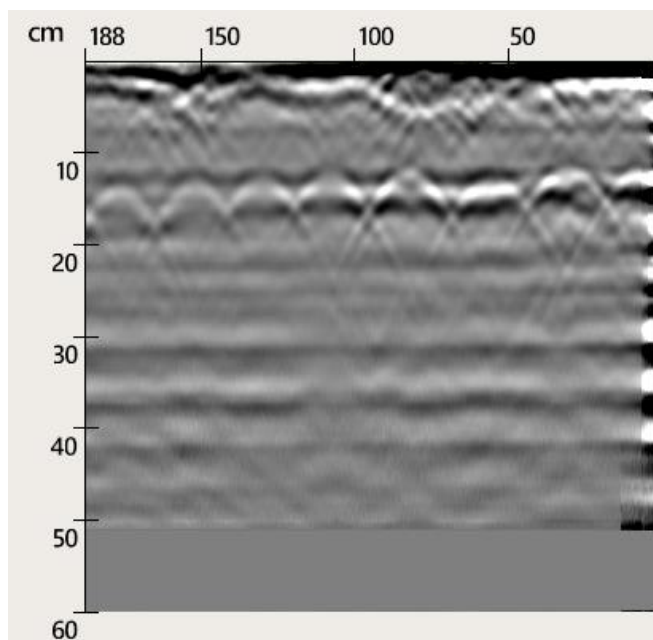
Punto indagine

GPRC2

Sezione verticale

Polarizzazione orizzontale

Polarizzazione verticale



Indagine Georadar sulle murature

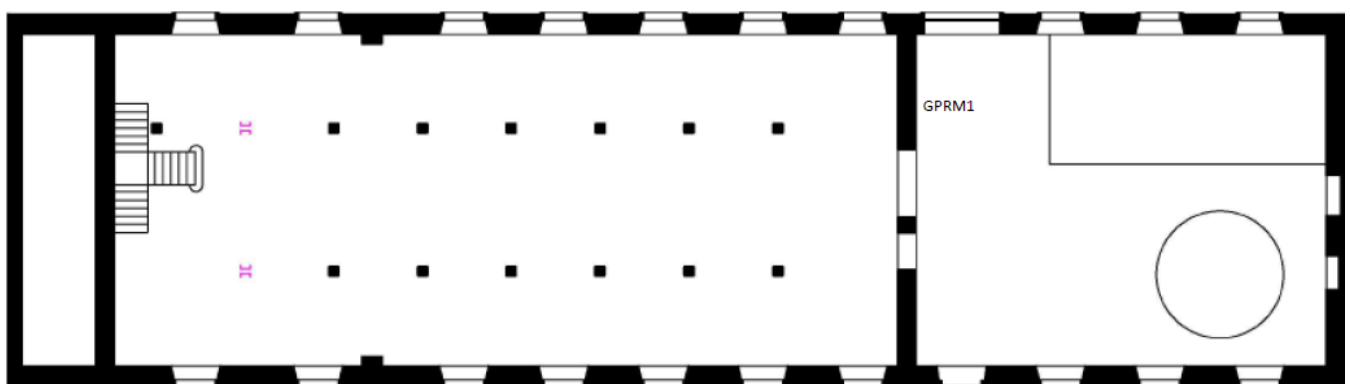
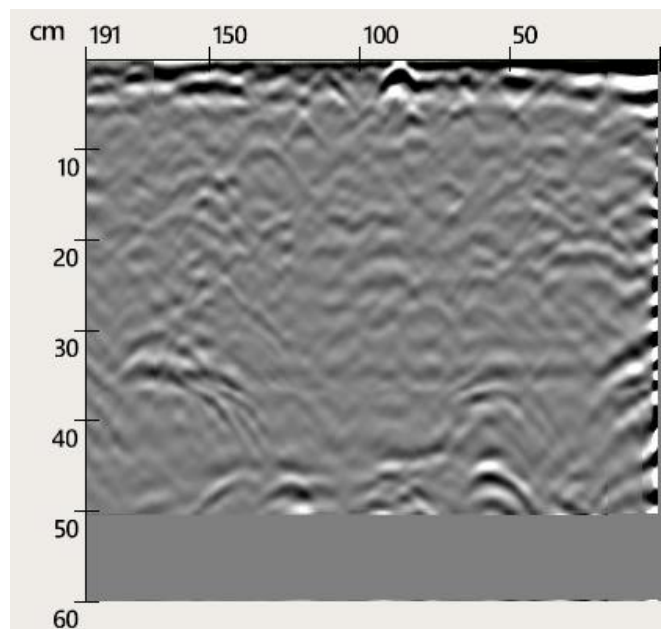
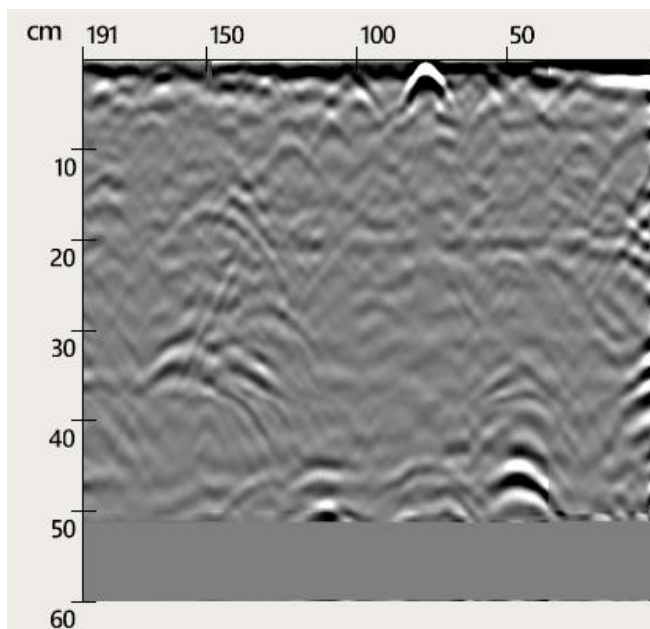
Punto indagine

GPRM1

Sezione orizzontale

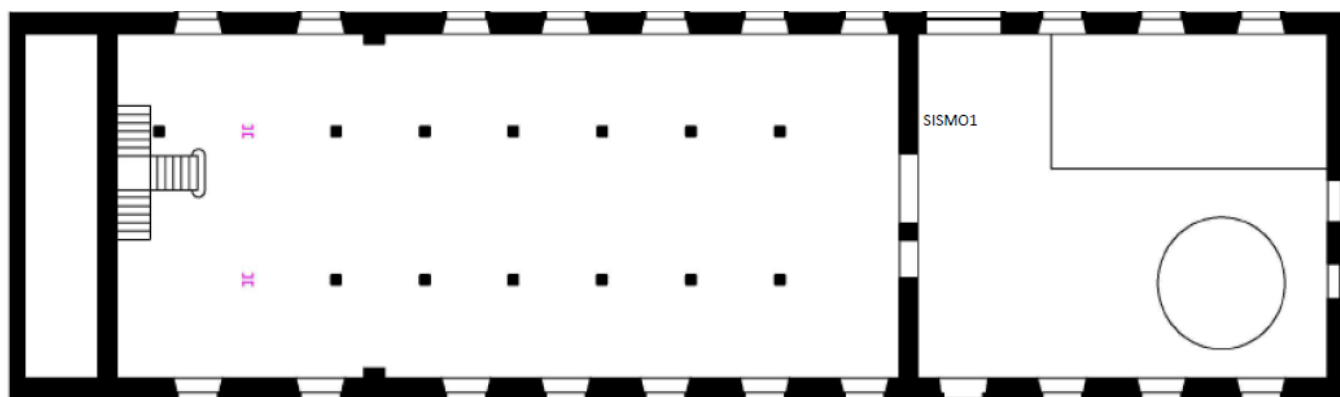
Polarizzazione orizzontale

Polarizzazione verticale

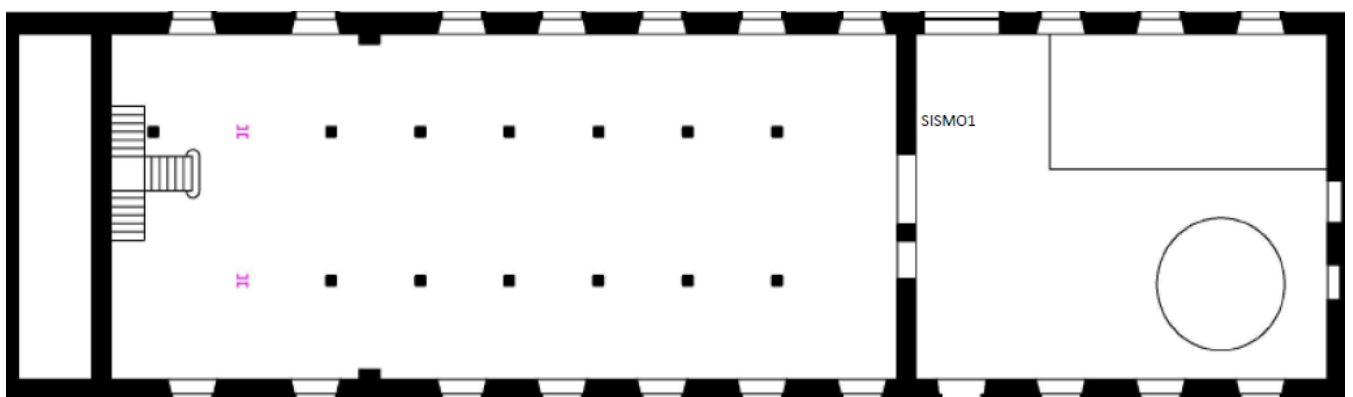
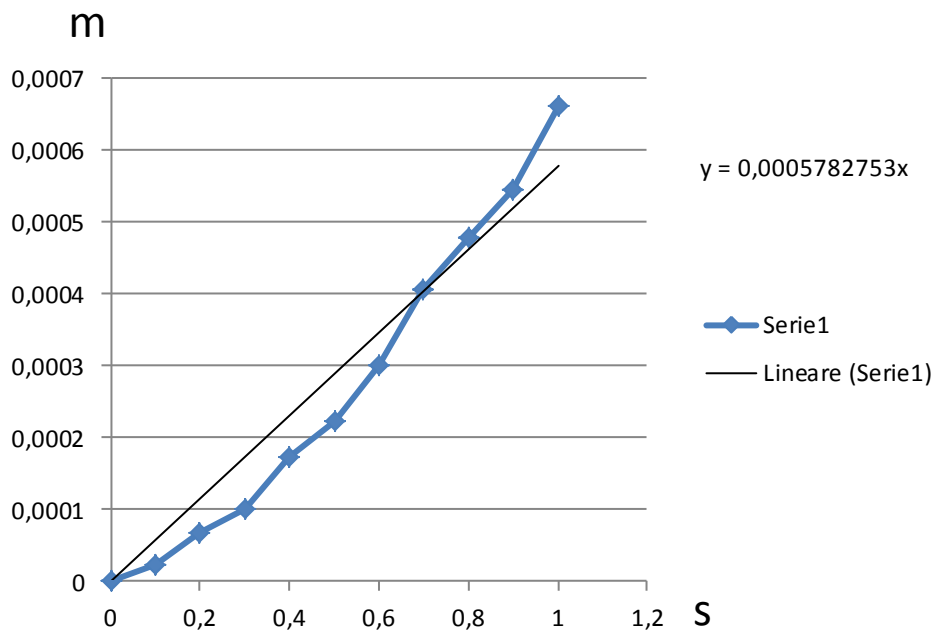


Microsismica sulle murature

Punto indagine	Off-set [cm]	Tempo [μ s]	Velocità [m/s]
SISMO1	10	24,2	1730
	20	68,2	
	30	100,4	
	40	174,7	
	50	223,0	
	60	301,0	
	70	406,0	
	80	478,0	
	90	544,0	
	100	662,0	



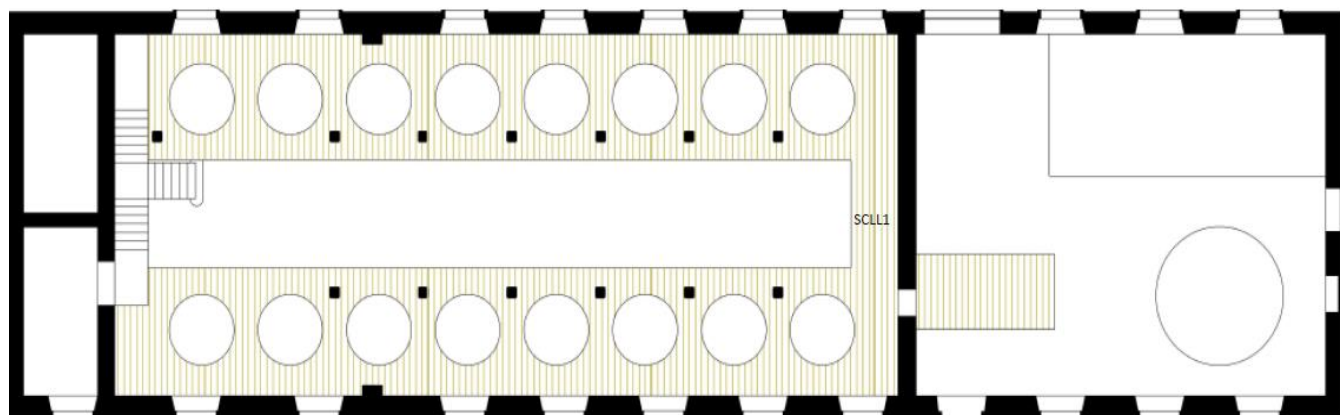
Microsismica sulle murature



Indagine Sclerometrica sul legno

Punto indagine	Misura	Penetrazione [mm]
SCLL1	1	28,48
	2	26,24
	3	27,16
	4	27,93
	5	26,70
	6	25,42
	7	28,62
	8	27,26
	9	27,90

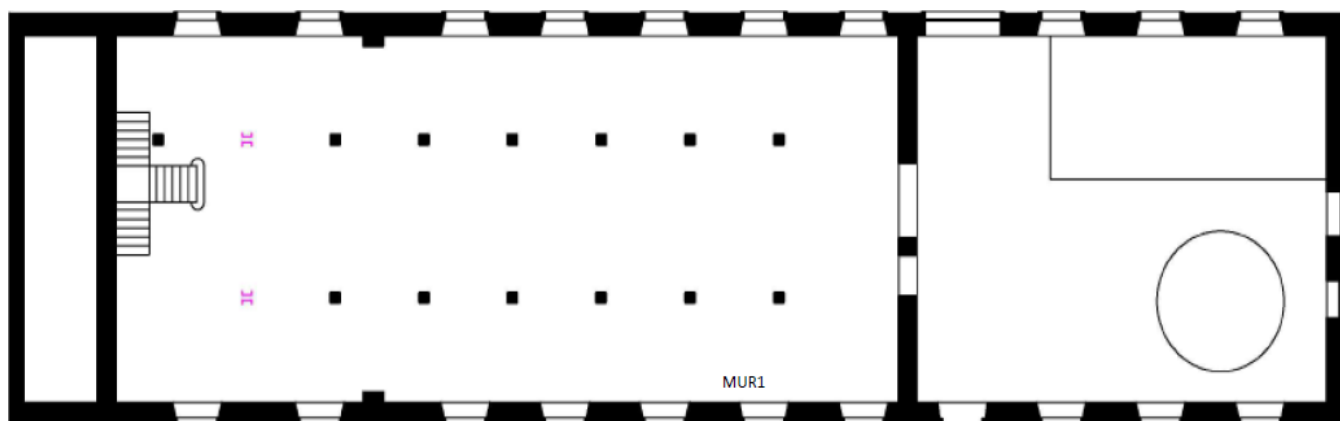
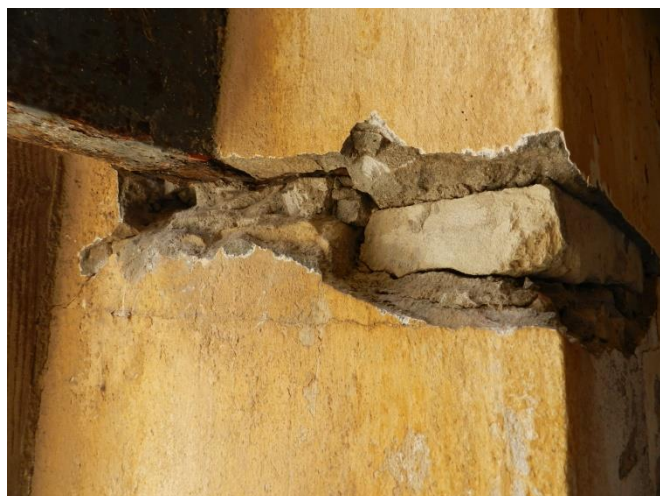
Lunghezza chiodo [mm]	Penetrazione media misurata [mm]	Penetrazione utile [mm]	Modulo di elasticità a flessione Em [N/mm ²]	Modulo di resistenza a flessione fm [N/mm ²]
50	27,30	22,70	9894,15	36,38



Saggio sulla muratura

Punto indagine

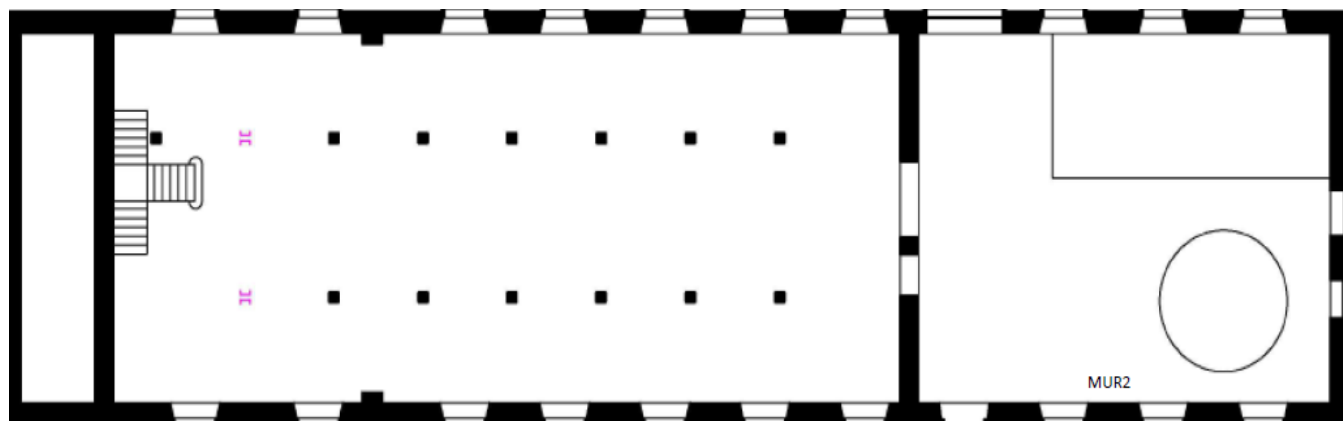
MUR1



Saggio sulla muratura

Punto indagine

MUR2



Analisi chimica per la misurazione del tenore di cloruri e solfati sul calcestruzzo

Punto indagine	Cloruri [mg/L]	Solfati [mg/L]
CL-SO1	28,5	215
	[%]	[%]
	0,003	0,022

