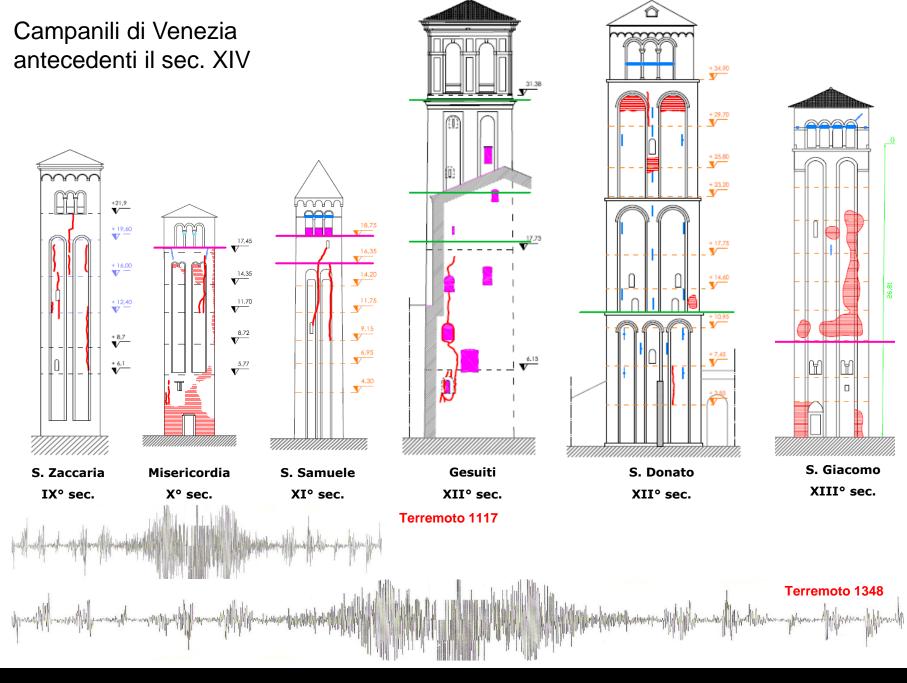
Renata Codello Alberto Lionello MiBACT Segretariato Regionale per il Veneto



Terremoti e beni culturali in area veneta: quale tutela?



Terremoti e beni culturali in area veneta: quale tutela?



Lesioni da sollecitazioni sismiche



S. Donato



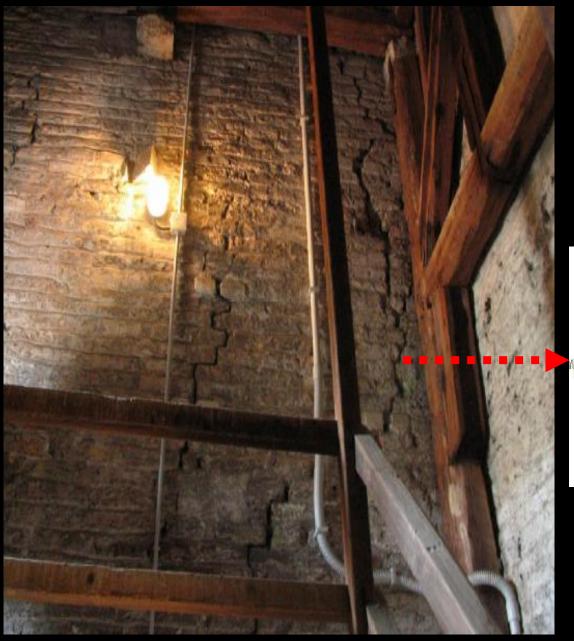


Gesuiti

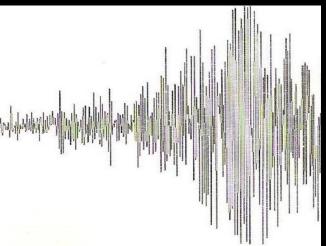
S. Zaccaria

S. Giacomo

Terremoti e beni culturali in area veneta: quale tutela?

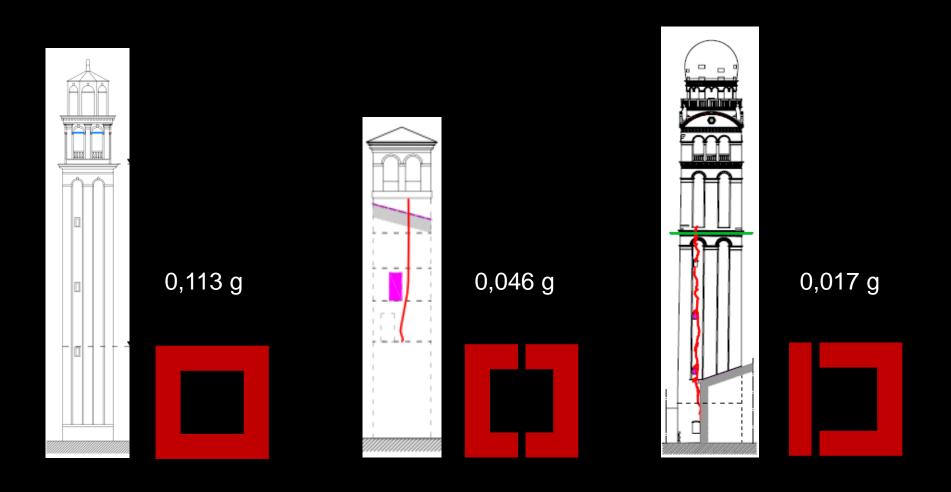


Risalire dalle lesioni alle azioni ...



Terremoti e beni culturali in area veneta: quale tutela?

Riduzione della resistenza alle azioni sismiche di torri fessurate



Terremoti e beni culturali in area veneta: quale tutela?

CONFRONTO TRA INDICI SISMICI

Campanile	NTC 2008		
San Geremia	1.03		
San Francesco della Vigna	0.41		
Santa Caterina di Mazzorbo	0.83		
San Giacomo dell'Orio	1.49		
Madonna dell'Orto	0.74		
Sant'Aponal	1.00		
San Donato a Murano	1.53		

Efficienza strutturale	
0.36	
0.84	
1.76	
0.73	
1.08	
0.93	
1.31	

CONFRONTO TRA INDICI SISMICI

Campanile	NTC 2008	NTC integrate	Efficienza strutturale
San Geremia	1.03	0.68	0.36
San Francesco della Vigna	0.41	0.78	0.84
Santa Caterina di Mazzorbo	0.83	0.97	1.76
San Giacomo dell'Orio	1.49	0.99	0.73
Madonna dell'Orto	0.74	1.06	1.08
Sant'Aponal	1.00	1.06	0.93
San Donato a Murano	1.53	1.51	1.31

CONFRONTO TRA INDICI SISMICI

San Donato a Murano

Sant'Aponal

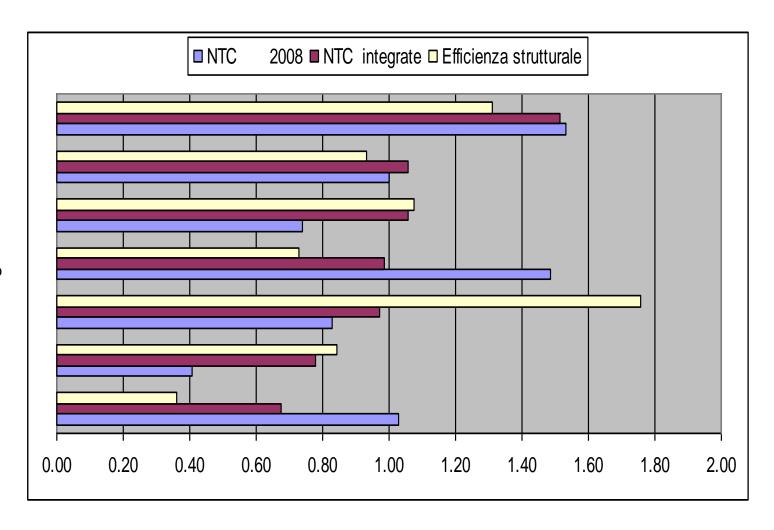
Madonna dell'Orto

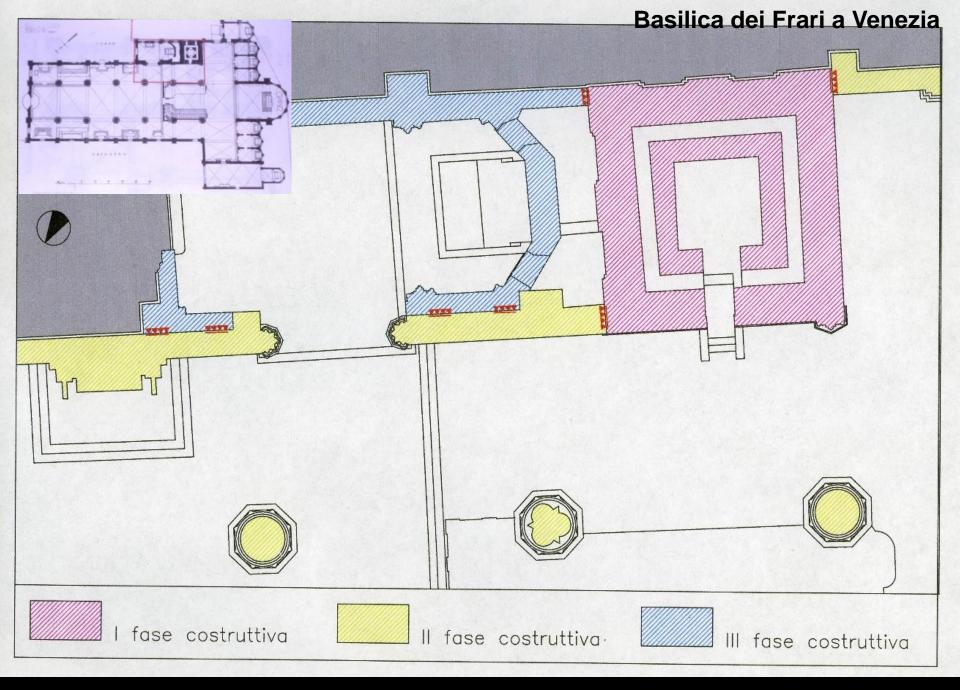
San Giacomo dell'Orio

Santa Caterina di Mazzorbo

San Francesco della Vigna

San Geremia

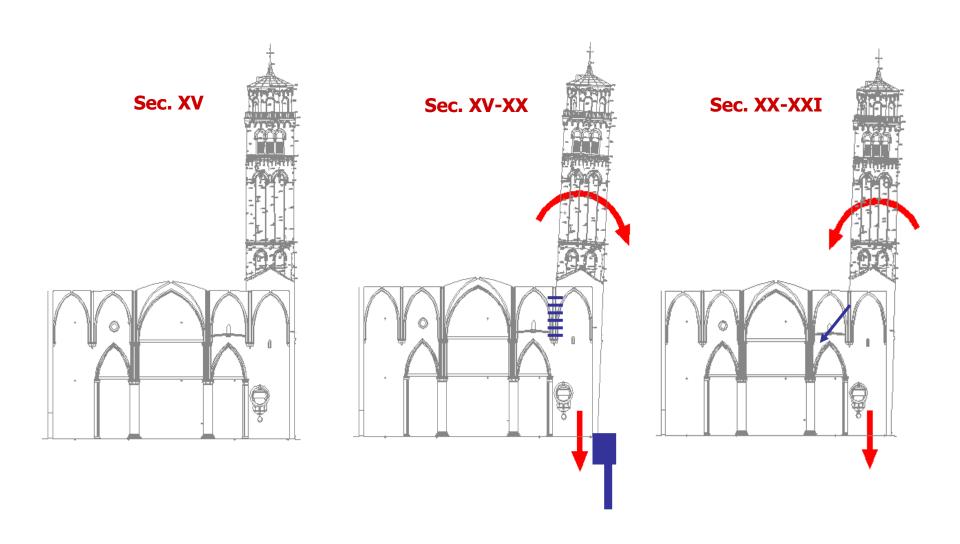


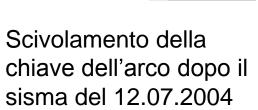


Terremoti e beni culturali in area veneta: quale tutela?

Basilica dei Frari a Venezia

MODIFICHE NEL TEMPO DEL COMPORTAMENTO STRUTTURALE









Basilica dei Frari a Venezia

12.07.2004 13:04:00 M 5.2

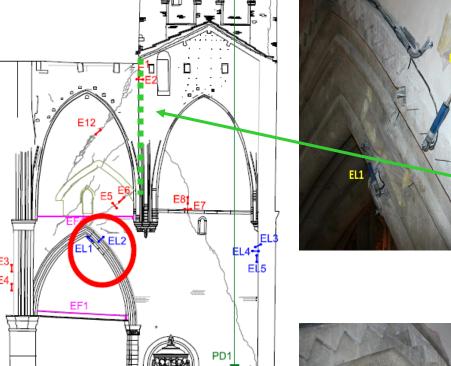


Alpi Giulie

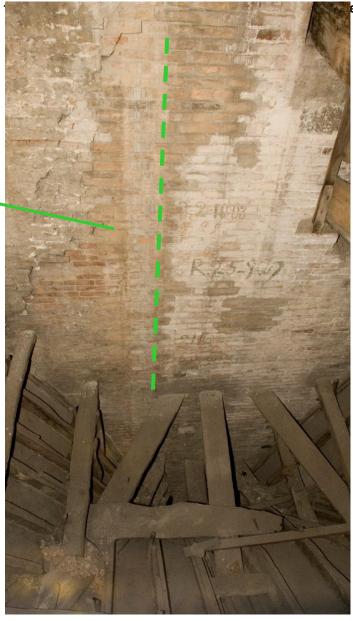
	EL1	EL2	
12/07/2004 12:00	-0.15	0.09	
12/07/2004 18:00	-0.11	0.23	

0.04 **0.14**

Basilica dei Frari a Venezia







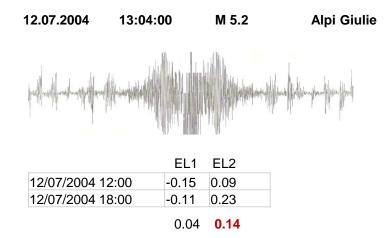
Isolamento del campanile dalla struttura della basilica

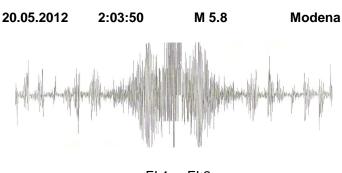
PD1 Scivolamento della chiave dell'arco dopo il sisma del 20.05.2012

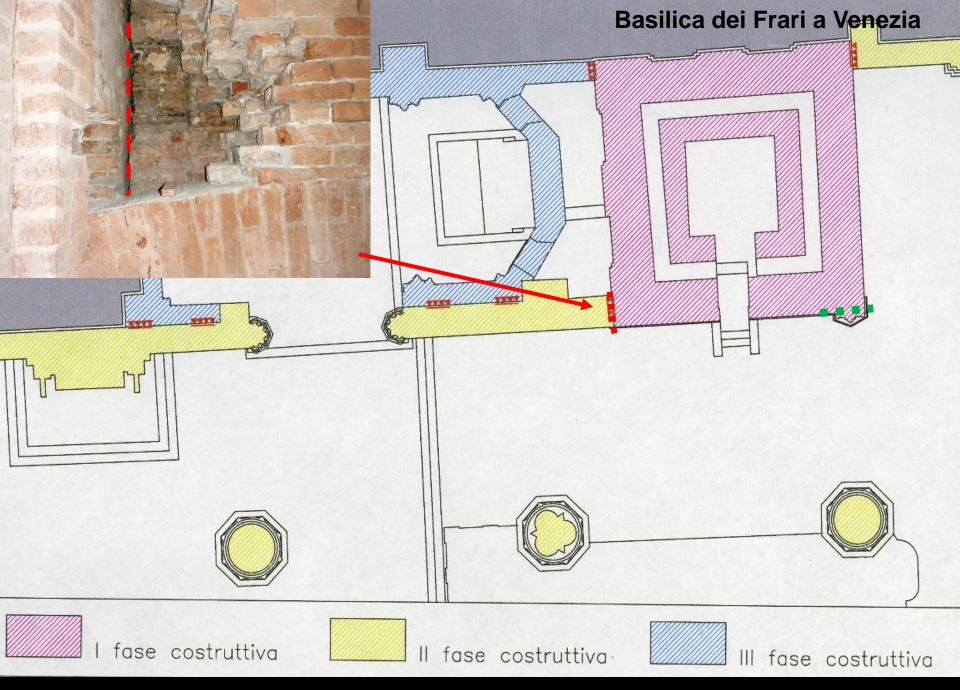




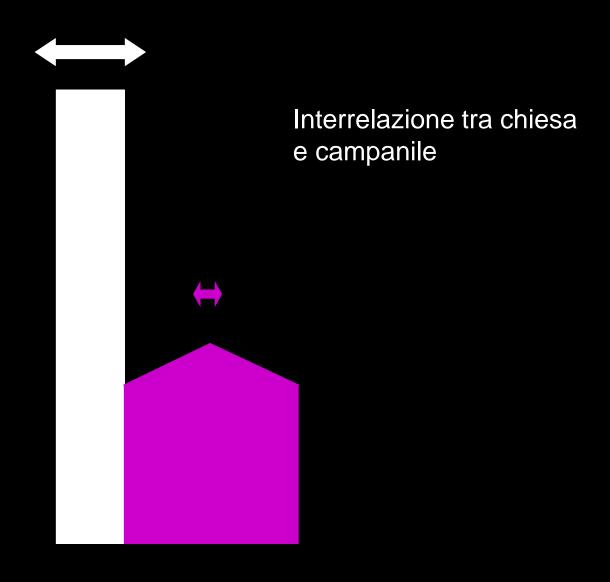
Basilica dei Frari a Venezia







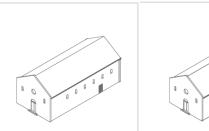
Terremoti e beni culturali in area veneta: quale tutela?

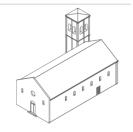




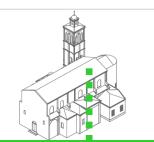
Terremoti e beni culturali in area veneta: quale tutela?

Duomo di S. Felice sul Panaro



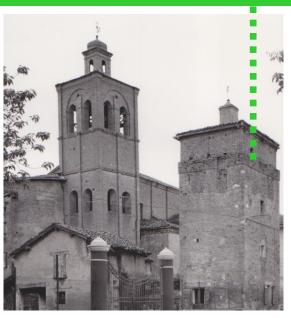




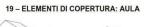


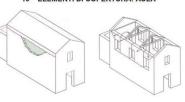










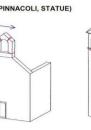


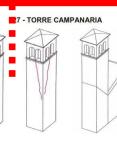


23 - MECCANISMI DI TAGLIO NELLE CAPPELLE

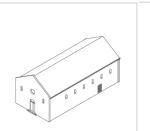


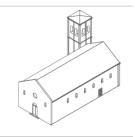






Duomo di S. Felice sul Panaro

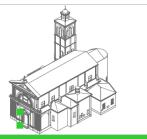




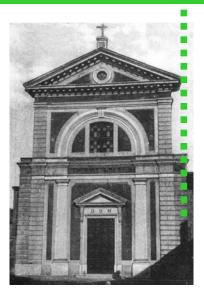






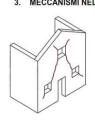












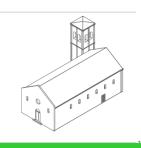






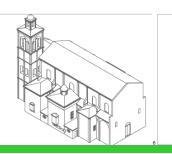
Duomo di S. Felice sul Panaro



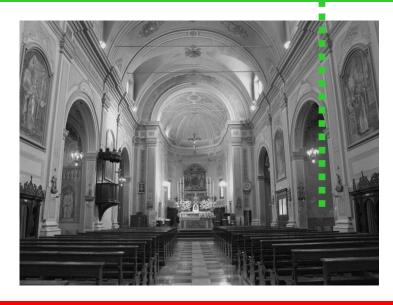








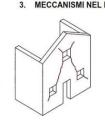




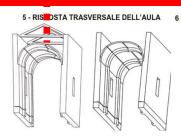






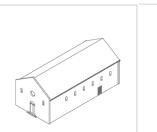






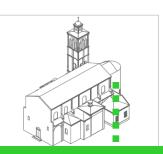


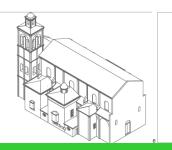
Duomo di S. Felice sul Panaro









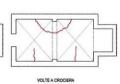












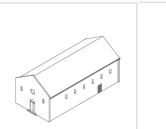






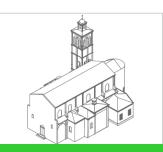


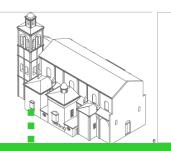
Duomo di S. Felice sul Panaro





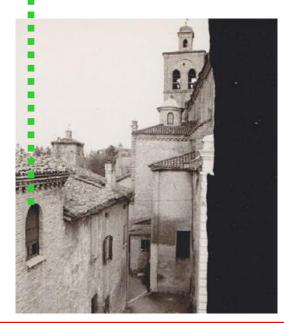




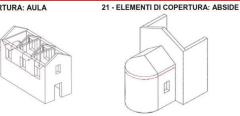
















Diffusa vulnerabilità

Procedure di verifica inadeguate

Scarse risorse

Tempo limitato

Diffusa vulnerabilità

Procedure di verifica inadeguate

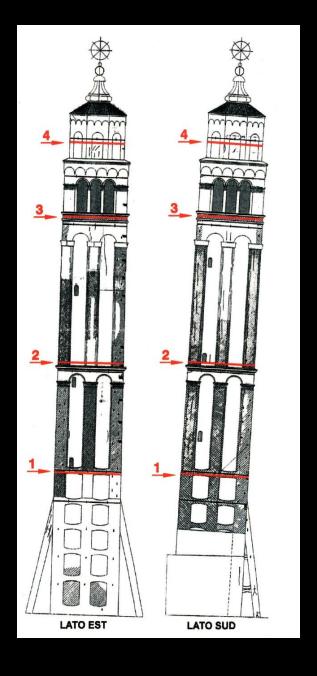
Scarse risorse

Tempo limitato

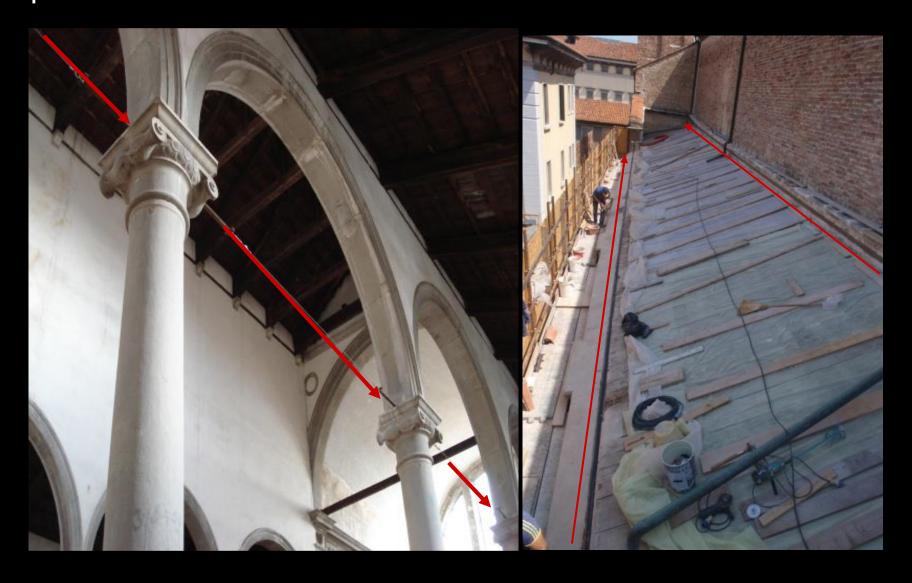
Riduzione del rischio

Campanile S. Stefano a Venezia n.4 cerchiature del fusto € 25.000

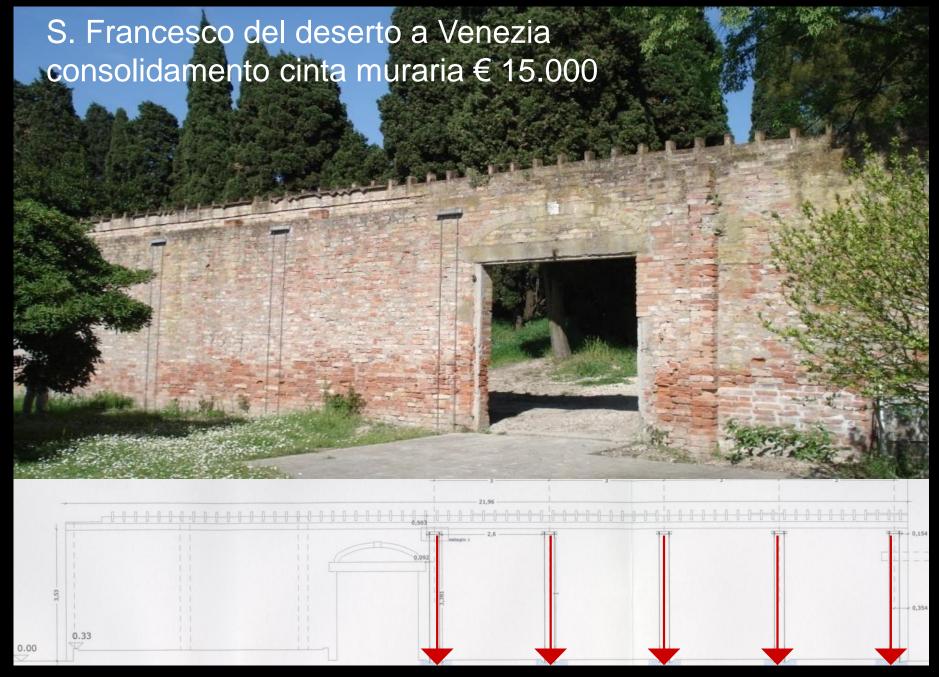




Chiesa S. Maria Maggiore a Venezia presidi della facciata € 30.000

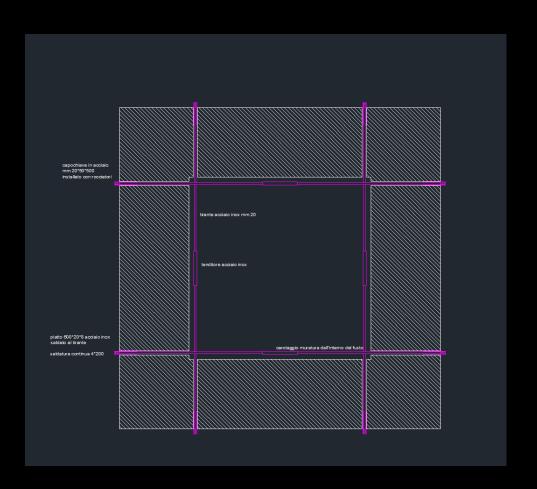


Terremoti e beni culturali in area veneta: quale tutela?



Terremoti e beni culturali in area veneta: quale tutela?

Chiesa S. Maria dei Battuti a Belluno installazione n.4 tiranti € 10.000





Terremoti e beni culturali in area veneta: quale tutela?