

Denomination of the church

S. Francisco

Terms of Use

Daily weekly Saltuario Abandoned Busy hours

Position

Isolated In aggregate Low-rise buildings Extremities or corner

Level of maintenance.

Awful Expiring Reasonable Good

Crack pattern in the arches - shear crack pattern in the side vault - Crush and / or crack on the base of the columns

Typological and dimensional data

Damage and vulnerabilty index

1- OVERTURNING OF THE FACADE					
Vulnerability	yes	no	<i>Aseismatic presidi</i>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of longitudinal chains	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of effective elements of contrast (buttress, other building)	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Good quality of scarf between the facade and the walls of the nave	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Vulnerability	yes	no	<i>Indicators of vulnerability</i>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of thrust elements	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of large openings in the side walls near the cantonal	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Detach of the facade from the walls or clear off lead	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Old		Detach of the facade from the walls or clear off lead	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

2- OVERTURNING OF THE GABLE					
Vulnerability	yes	no	<i>Aseismatic presidi</i>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of links with timely coverage	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of groundwater braces	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of orizzontal ledge	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes	no	<i>Indicators of vulnerability</i>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of large openings (rosette)	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of a top sailing with a large size and weight	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rigid beam filled in c.a. Heavy coverage in c.a.	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined crack pattern (shear) - vertical crack pattern - Rotation of main couple	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Old		Inclined crack pattern (shear) - vertical crack pattern - Rotation of main couple	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

3- MECHANISMS IN PLAN OF FACADE						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains in counter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Side contrast provided by bodies or smeli facade inserted in aggregate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (also curtain wall)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	High slenderness (ratio height / width)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined crack pattern (shear) - vertical crack pattern - Other cracks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Old		Inclined crack pattern (shear) - vertical crack pattern - Other cracks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

4- PROTHYRUM - NARTHEX						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of columns, piers with adequate stiffness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of pushing elements (arch, vault)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack pattern in the entablature for rotation of the columns - Detach comprehensive from the facade - Pounding of the protiro- Arches damaged	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the entablature for rotation of the columns - Detach comprehensive from the facade - Pounding of the protiro- Arches damaged	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5- TRANSVERSAL ANSWER OF THE HALL						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of external buttresses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Presence of adjacent bodies annexes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of transversal chains			
	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of walls with high slenderness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Presence of vault and arches (The vault is pretended)			
	Current		Crack pattern in the arches (with the possible continuation in the vault) - Rotazioni wall - shear crack pattern in the vault - Out of lead and crushing columns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Old		Crack pattern in the arches (with the possible continuation in the vault) - Rotazioni wall - shear crack pattern in the vault - Out of lead and crushing columns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6- SHEAR MECHANISMS IN SIDE WAALS (LONGITUDINAL ANSWER)						
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Masonry uniform (the only constructive phase) and of good quality Presence of good openings architraves Presence of orizzontal ledge (reticular metal, masonry army)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (buffered), wall with restricted thickness Orizzontal ledge in AC, heavy coverage in AC.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7- LONGITUDINAL ANSWER OF THE COLONNADE OF CHURCHES WITH SIDE AISLE						
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Presence of longitudinal chains Presence of buttresses in front or body appendages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (buffered), wall with restricted thickness Orizzontal ledge in c.a, heavy coverage in c.a.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack pattern in the arches - shear crack pattern in the side vault - Crush and / or crack on the base of the columns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the arches - shear crack pattern in the side vault - Crush and / or crack on the base of the columns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8- VAULT OF CENTRAL AISLE (The vault is not carryng)						
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains into effective place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of concentrated loads transmitted from the coverage Presence of lunette with high dimension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the vault aisle or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

9- VAULT OF SIDE AISLES (The vault is not carrying)								
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains into effective place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	yes <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of concentrated loads transmitted from the coverage Presence of lunette with high dimension	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
Damage	Current		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10- OVERTURNING OF THE END WALLS OF TRANSEPT (The transept is not presented)								
Vulnerability	yes <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of longitudinal chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Presence of effective elements of contrast (buttresses, smeli bodies, other buildings) Good connection with the coverage (beam-chains, controventi) Good interaction between the front wall and side walls	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Vulnerability	yes <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Presence of orizzontal ledge (reticular metal, masonry army, about subtle) <i>Indicators of vulnerability</i> Presence, beams filled AC, heavy coverage Presence of large openings in the front wall (rosette), or in those side Presence of a gable wall with a great size and weight	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
	Damage	Current		Detach of the front wall from the side walls or overtuning in the top	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Old		Detach of the front wall from the side walls or overtuning in the top	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

11- SHEAR MECHANISM IN THE WALL OF THE TRANSEPT (The transept is not presented)						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Masonry uniform (the only constructive phase) and of good quality Presence of good openings architraves Presence of orizzontal ledge (reticular metal, masonry army)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (buffered), wall with restricted thickness Orizzontal ledge in AC, heavy coverage in AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

12- VAULT OF THE TRANSEPT (The transept is not presented)						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains into effective place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of concentrated loads transmitted from the coverage Presence of lunette with high dimension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

13- TRIUMPHAL ARCH (The triumphal arch is not presented)						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Effective enforcement walls (ratio light/width nave) Presence of chains Good ashlar or appropriate thickness Presence of tympanum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of heavy coverage in AC Presence of dome or lantern	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack in the arch - creep of ashlar - Crush on the base of piers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack in the arch - creep of ashlar - Crush on the base of piers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

14- DOME AND THE TIBURIO (We consider the 3 dome under the bell tower)								
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of reinforcement ring, even at multiple levels Presence of external buttresses in the drume Dome directly set on triumphal arches (no drum)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of heavy coverage in AC Presence of large openings in drum Presence of concentrated loads transmitted from the coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Damage	Current		Crack in the dome with possible prosecution in drum (Crack alog the meridian of central dome)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Old		Crack in the dome with possible prosecution in drum (Crack alog the meridian of central dome)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

15- LANTERN (The lantern is not presented)								
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of external reinforcement ring Presence of external buttresses Size contained compared to those of dome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Lantern with high slenderness, with large openings and small pillars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Damage	Current		Crack in the dome of lantern - Rotazioni of piers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack in the dome of lantern - Rotazioni of piers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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16- OVERTURNING OF THE APSE						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of reinforcement ring, of chains Presence of external buttresses in the drume Presence of braced coverage not pusher	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of strong weakening for the presence of openings in the walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of pushing vault Presence of heavy coverage, strut of pitch in AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined or vertical crack in the wall of the apse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Old		Inclined or vertical crack in the wall of the apse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

17- SHEAR MECHANISM IN THE WALL OF THE APSE						
Vulnerability	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Masonry uniform (the only constructive phase) and of good quality Presence of good openings architraves Presence of orizzontal ledge (reticular metal, masonry army)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (buffered), wall with restricted thickness Orizzontal ledge in AC, heavy coverage in AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

18- VAULT OF APSE (The vault is not carryng)								
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains into effective place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	yes <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of concentrated loads transmitted from the coverage Presence of lunette with high dimension	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
Damage	Current		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the vault aisle or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

19- MECHANISMS OF ELEMENTS IN COVERAGE - SIDE WALLS SIDE								
Vulnerability	yes <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	no <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<i>Aseismatic presidi</i> Presence of orizzontal ledge in AC Presence of local link between beams and walls Presence of braced pitch Presence of good connections between the elements of warping coverage	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
	yes <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of pushing coverage Presence of orizzontal ledge, heavy coverage	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
Damage	Current		Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

20- MECHANISMS OF ELEMENTS IN COVERAGE - TRANSEPT						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of orizzontal ledge in AC Presence of local link between beams and walls Presence of braced pitch Presence of good connections between the elements of warping coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of pushing coverage Presence of orizzontal ledge, heavy coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

21- MECHANISMS OF ELEMENTS IN COVERAGE - APSE						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of orizzontal ledge in AC Presence of local link between beams and walls Presence of braced pitch Presence of good connections between the elements of warping coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of pushing coverage Presence of orizzontal ledge, heavy coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

22- OVERTURNING OF THE CHAPEL (The chapel is not presented)								
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of reinforcement ring, of chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of external buttresses in the drume	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Presence of good connections between frontal wall and side walls	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of strong weakening for the presence of openings in the walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Damage	Current		Detach from the frontal wall to the side walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Detach from the frontal wall to the side walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

23- SHEAR MECHANISM IN THE WALL OF THE CHAPEL (The chapel is not presented)								
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Masonry uniform (the only constructive phase) and of good quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of good openings architraves	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of orizzontal ledge (reticular metal, masonry army)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (buffered), wall with restricted thickness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Orizzontal ledge in AC, heavy coverage in AC					
Damage	Current		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

24- VAULT OF THE CHAPEL (The chapel is not presented)						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains into effective place	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	yes <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of concentrated loads transmitted from the coverage Presence of lunette with high dimension	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Damage	Current		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	Old		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
25- INTERACTIONS NEAR OF PLANO-ALTIMETRIC IRREGULARITIES						
Vulnerability	yes <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains Presence of an adequate connection between the walls of different stages	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	yes <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of high stiffness difference between the two bodies Possible actions transmitted from Relay	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Damage	Current		Movement of the joint or crack in the masonry for hammering - vertical crack in the less rigid body - Rotation in the highest body	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	Old		Movement of the joint or crack in the masonry for hammering - vertical crack in the less rigid body - Rotation in the highest body	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
26- OVERHANG (GABLE - SPIRES - PINNACLES - STATUTES)						
Vulnerability	yes <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	no <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of pins link with masonry or elements of restraint Elements with limited importance and size Monolithic masonry (a squared or otherwise of good quality)	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	yes <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Elements with high slenderness Asymmetric location respect to the underlying element	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Damage	Current		Elevated permanent rotations or slide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	Old		Elevated permanent rotations or slide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

27- BELL TOWER						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Masonry uniform (the only constructive phase) and of good quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of adequate distance from the walls of the church (where adjacent)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence good connection with the walls of the church (if incorporated)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of significant openings on multiple levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Constraint on asymmetrical walls to the base station (tower incorporated)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Masonry low to the ground on some sides (for porch), tower building on pillars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack near the detachment from the body of the church - shear crack or slider - vertical crack (expulsion of one or more corners)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Old		Crack near the detachment from the body of the church - shear crack or slider - vertical crack (expulsion of one or more corners)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

28- BELL CELL						
Vulnerability	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Presence of piece piers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Presence of chains or reinforcement ring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of heavy coverage or other significant masses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence coverage Pusher	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack in the arches - rotation or sliding of piers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Old		Crack in the arches - rotation or sliding of piers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

NON SEISMIC DAMAGE

A- FOUNDATION SETTLEMENT		<input type="checkbox"/>
Damage	Inclined crack 45° - vertical crack - rotation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
macroelement	front wall <input type="checkbox"/> side walls <input type="checkbox"/> transept <input type="checkbox"/> apse <input type="checkbox"/> bell tower <input type="checkbox"/>	

B- CRUSHING OF WALLS		<input type="checkbox"/>
Damage	Detach of masonry walls - extended vertical crack for crushing stress	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
macroelement	front wall <input type="checkbox"/> side walls <input type="checkbox"/> transept <input type="checkbox"/> apse <input type="checkbox"/> bell tower <input type="checkbox"/>	

C- ROTATION OF WALLS		<input checked="" type="checkbox"/>
Damage	Out of plumb	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
macroelement	front wall <input checked="" type="checkbox"/> side walls <input type="checkbox"/> transept <input type="checkbox"/> apse <input type="checkbox"/> bell tower <input type="checkbox"/>	

Denomination of the church

Les Hermanitas

Terms of Use

Daily weekly Saltuario Abandoned Busy hours

Position

Isolated In aggregate Low-rise buildings Extremities or corner

Level of maintenance.

Awful Expiring Reasonable Good

Typological and dimensional data

Damage and vulnerabilty index

1- OVERTURNING OF THE FACADE						
Vulnerability	yes	no	<i>Aseismatic presidi</i>			
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of longitudinal chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of effective elements of contrast (buttress, other building)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Good quality of scarf between the facade and the walls of the nave	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes	no	<i>Indicators of vulnerability</i>			
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of thrust elements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of large openings in the side walls near the cantonal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Detach of the facade from the walls or clear off lead	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Detach of the facade from the walls or clear off lead	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2- OVERTURNING OF THE GABLE						
Vulnerability	yes	no	<i>Aseismatic presidi</i>			
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of links with timely coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of groundwater braces	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of orizzontal ledge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes	no	<i>Indicators of vulnerability</i>			
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of large openings (rosette)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Presence of a top sailing with a large size and weight	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rigid beam filled in c.a. Heavy coverage in c.a.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined crack pattern (shear) - vertical crack pattern - Rotation of main couple	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Old		Inclined crack pattern (shear) - vertical crack pattern - Rotation of main couple	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3- MECHANISMS IN PLAN OF FACADE						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains in counter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Side contrast provided by bodies or smeli facade inserted in aggregate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (also curtain wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	High slenderness (ratio height / width)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined crack pattern (shear) - vertical crack pattern - Other cracks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Old		Inclined crack pattern (shear) - vertical crack pattern - Other cracks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

4- PROTHYRUM - NARTHEX (The prothyrum is not presented)						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of columns, piers with adequate stiffness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of pushing elements (arch, vault)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack pattern in the entablature for rotation of the columns - Detach comprehensive from the facade - Pounding of the protiro- Arches damaged	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the entablature for rotation of the columns - Detach comprehensive from the facade - Pounding of the protiro- Arches damaged	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5- TRANSVERSAL ANSWER OF THE HALL						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of external buttresses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of adjacent bodies annexes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of transversal chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of walls with high slenderness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of vault and arches (The vault is pretended)			
Damage	Current		Crack pattern in the arches (with the possible continuation in the vault) - Rotazioni wall - shear crack pattern in the vault - Out of lead and crushing columns	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the arches (with the possible continuation in the vault) - Rotazioni wall - shear crack pattern in the vault - Out of lead and crushing columns	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

6- SHEAR MECHANISMS IN SIDE WAALS (LONGITUDINAL ANSWER)						
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Masonry uniform (the only constructive phase) and of good quality Presence of good openings architraves Presence of orizzontal ledge (reticular metal, masonry army)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (buffered), wall with restricted thickness Orizzontal ledge in AC, heavy coverage in AC.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7- LONGITUDINAL ANSWER OF THE COLONNADE OF CHURCHES WITH SIDE AISLE						
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Presence of longitudinal chains Presence of buttresses in front or body appendages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (buffered), wall with restricted thickness Orizzontal ledge in c.a, heavy coverage in c.a.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack pattern in the arches - shear crack pattern in the side vault - Crush and / or crack on the base of the columns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the arches - shear crack pattern in the side vault - Crush and / or crack on the base of the columns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8- VAULT OF CENTRAL AISLE						
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains into effective place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of concentrated loads transmitted from the coverage Presence of lunette with high dimension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the vault aisle or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

9- VAULT OF SIDE AISLES						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains into effective place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of concentrated loads transmitted from the coverage Presence of lunette with high dimension	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Damage	Current		Crack pattern in the vault or disconnections	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>
	Old		Crack pattern in the vault or disconnections	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>

10- OVERTURNING OF THE END WALLS OF TRANSEPT						
Vulnerability	yes <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of longitudinal chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Presence of effective elements of contrast (buttresses, smeli bodies, other buildings) Good connection with the coverage (beam-chains, controventi) Good interaction between the front wall and side walls	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Vulnerability	yes <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	no <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<i>Indicators of vulnerability</i> Presence, beams filled AC, heavy coverage Presence of large openings in the front wall (rosette), or in those side Presence of a gable wall with a great size and weight	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Current		Detach of the front wall from the side walls or overtuning in the top	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Damage	Old		Detach of the front wall from the side walls or overtuning in the top	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

11- SHEAR MECHANISM IN THE WALL OF THE TRANSEPT						
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Masonry uniform (the only constructive phase) and of good quality Presence of good openings architraves Presence of orizzontal ledge (reticular metal, masonry army)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (buffered), wall with restricted thickness Orizzontal ledge in AC, heavy coverage in AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12- VAULT OF THE TRANSEPT						
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains into effective place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of concentrated loads transmitted from the coverage Presence of lunette with high dimension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13- TRIUMPHAL ARCH						
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Effective enforcement walls (ratio light/width nave) Presence of chains Good ashlar or appropriate thickness Presence of tympanum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of heavy coverage in AC Presence of dome or lantern	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack in the arch - creep of ashlar - Crush on the base of piers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack in the arch - creep of ashlar - Crush on the base of piers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

14- DOME AND THE TIBURIO								
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of reinforcement ring, even at multiple levels Presence of external buttresses in the drume Dome directly set on triumphal arches (no drum)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of heavy coverage in AC Presence of large openings in drum Presence of concentrated loads transmitted from the coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Damage	Current		Crack in the dome with possible prosecution in drum (Crack along the meridian of central dome)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack in the dome with possible prosecution in drum (Crack along the meridian of central dome)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

15- LANTERN (The lantern is not presented)								
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of external reinforcement ring Presence of external buttresses Size contained compared to those of dome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Lantern with high slenderness, with large openings and small pillars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Damage	Current		Crack in the dome of lantern - Rotazioni of piers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack in the dome of lantern - Rotazioni of piers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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16- OVERTURNING OF THE APSE						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of reinforcement ring, of chains Presence of external buttresses in the drume Presence of braced coverage not pusher	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of strong weakening for the presence of openings in the walls Presence of pushing vault Presence of heavy coverage, strut of pitch in AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined or vertical crack in the wall of the apse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Old		Inclined or vertical crack in the wall of the apse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

17- SHEAR MECHANISM IN THE WALL OF THE APSE						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Masonry uniform (the only constructive phase) and of good quality Presence of good openings architraves Presence of orizzontal ledge (reticular metal, masonry army)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (buffered), wall with restricted thickness Orizzontal ledge in AC, heavy coverage in AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined crack (single or cross) - Crack through local discontinuity	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Old		Inclined crack (single or cross) - Crack through local discontinuity	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

18- VAULT OF APSE								
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains into effective place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	yes <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of concentrated loads transmitted from the coverage Presence of lunette with high dimension	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
Damage	Current		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the vault aisle or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

19- MECHANISMS OF ELEMENTS IN COVERAGE - SIDE WALLS SIDE								
Vulnerability	yes <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of orizzontal ledge in AC Presence of local link between beams and walls Presence of braced pitch Presence of good connections between the elements of warping coverage	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
	yes <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	no <input type="checkbox"/> <input type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of pushing coverage Presence of orizzontal ledge, heavy coverage	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
Damage	Current		Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

20- MECHANISMS OF ELEMENTS IN COVERAGE - TRANSEPT

Vulnerability	yes <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of orizzontal ledge in AC Presence of local link between beams and walls Presence of braced pitch Presence of good connections between the elements of warping coverage	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
	yes <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	no <input type="checkbox"/> <input type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of pushing coverage Presence of orizzontal ledge, heavy coverage	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
Damage	Current	Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old	Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

21- MECHANISMS OF ELEMENTS IN COVERAGE - APSE

Vulnerability	yes <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of orizzontal ledge in AC Presence of local link between beams and walls Presence of braced pitch Presence of good connections between the elements of warping coverage	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
	yes <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	no <input type="checkbox"/> <input type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of pushing coverage Presence of orizzontal ledge, heavy coverage	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
Damage	Current	Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old	Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

22- OVERTURNING OF THE CHAPEL (The chapel is not presented)								
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of reinforcement ring, of chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of external buttresses in the drume	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of good connections between frontal wall and side walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of strong weakening for the presence of openings in the walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Damage	Current		Detach from the frontal wall to the side walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Detach from the frontal wall to the side walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

23- SHEAR MECHANISM IN THE WALL OF THE CHAPEL (The chapel is not presented)								
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Masonry uniform (the only constructive phase) and of good quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of good openings architraves	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of orizzontal ledge (reticular metal, masonry army)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (buffered), wall with restricted thickness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Orizzontal ledge in AC, heavy coverage in AC					
Damage	Current		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

24- VAULT OF THE CHAPEL (The chapel is not presented)						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains into effective place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of concentrated loads transmitted from the coverage Presence of lunette with high dimension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25- INTERACTIONS NEAR OF PLANO-ALTIMETRIC IRREGULARITIES						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of an adequate connection between the walls of different stages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of high stiffness difference between the two bodies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Possible actions transmitted from Relay	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Movement of the joint or crack in the masonry for hammering - vertical crack in the less rigid body - Rotation in the highest body	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Movement of the joint or crack in the masonry for hammering - vertical crack in the less rigid body - Rotation in the highest body	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

26- OVERHANG (GABLE - SPIRES - PINNACLES - STATUTES)						
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Presence of pins link with masonry or elements of restraint Elements with limited importance and size Monolithic masonry (a squared or otherwise of good quality)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Indicators of vulnerability</i> Elements with high slenderness Asymmetric location respect to the underlying element	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Elevated permanent rotations or slide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Elevated permanent rotations or slide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

27- BELL TOWER (The bell tower is not presented)						
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Masonry uniform (the only constructive phase) and of good quality Presence chains Presence of adequate distance from the walls of the church (where adjacent) Presence good connection with the walls of the church (if incorporated)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of significant openings on multiple levels Constraint on asymmetrical walls to the base station (tower incorporated) Masonry low to the ground on some sides (for porch), tower building on pillars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack near the detachment from the body of the church - shear crack or slider - vertical crack (expulsion of one or more corners)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack near the detachment from the body of the church - shear crack or slider - vertical crack (expulsion of one or more corners)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

28- BELL CELL (The bell tower is not presented)						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of piece piers Presence of chains or reinforcement ring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of heavy coverage or other significant masses Presence coverage Pusher	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack in the arches - rotation or sliding of piers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack in the arches - rotation or sliding of piers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NON SEISMIC DAMAGE

A- FOUNDATION SETTLEMENT			<input type="checkbox"/>				
Damage	Inclined crack 45° - vertical crack - rotation		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
macroelement	front wall	<input type="checkbox"/> side walls	<input type="checkbox"/> transept	<input type="checkbox"/> apse	<input type="checkbox"/> bell tower	<input type="checkbox"/>	

B- CRUSHING OF WALLS			<input type="checkbox"/>				
Damage	Detach of masonry walls - extended vertical crack for crushing stress		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
macroelement	front wall	<input type="checkbox"/> side walls	<input type="checkbox"/> transept	<input type="checkbox"/> apse	<input type="checkbox"/> bell tower	<input type="checkbox"/>	

C- ROTATION OF WALLS			<input type="checkbox"/>				
Damage	Out of plumb		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
macroelement	front wall	<input type="checkbox"/> side walls	<input type="checkbox"/> transept	<input type="checkbox"/> apse	<input type="checkbox"/> bell tower	<input type="checkbox"/>	

Denomination of the church

Matriz

Terms of Use

Daily weekly Saltuario Abandoned Busy hours

Position

Isolated In aggregate Low-rise buildings Extremities or corner

Level of maintenance.

Awful Expiring Reasonable Good

Typological and dimensional data

Damage and vulnerabilty index

1- OVERTURNING OF THE FACADE					
Vulnerability	yes	no	<i>Aseismatic presidi</i>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of longitudinal chains	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of effective elements of contrast (buttress, other building)	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Good quality of scarf between the facade and the walls of the nave	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes	no	<i>Indicators of vulnerability</i>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of thrust elements	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of large openings in the side walls near the cantonal	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Detach of the facade from the walls or clear off lead	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Old		Detach of the facade from the walls or clear off lead	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

2- OVERTURNING OF THE GABLE					
Vulnerability	yes	no	<i>Aseismatic presidi</i>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of links with timely coverage	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of groundwater braces	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of orizzontal ledge	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes	no	<i>Indicators of vulnerability</i>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of large openings (rosette)	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of a top sailing with a large size and weight	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rigid beam filled in c.a. Heavy coverage in c.a.	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined crack pattern (shear) - vertical crack pattern - Rotation of main couple	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Inclined crack pattern (shear) - vertical crack pattern - Rotation of main couple	<input type="checkbox"/>	<input type="checkbox"/>

3- MECHANISMS IN PLAN OF FACADE						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains in counter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Side contrast provided by bodies or smeli facade inserted in aggregate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (also curtain wall)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	High slenderness (ratio height / width)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined crack pattern (shear) - vertical crack pattern - Other cracks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Old		Inclined crack pattern (shear) - vertical crack pattern - Other cracks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

4- PROTHYRUM - NARTHEX (The prothyrum is not presented)						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of columns, piers with adequate stiffness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of pushing elements (arch, vault)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack pattern in the entablature for rotation of the columns - Detach comprehensive from the facade - Pounding of the protiro- Arches damaged	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the entablature for rotation of the columns - Detach comprehensive from the facade - Pounding of the protiro- Arches damaged	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5- TRANSVERSAL ANSWER OF THE HALL						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of external buttresses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of adjacent bodies annexes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of transversal chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of walls with high slenderness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Presence of vault and arches (The vault is pretended)			
	Current		Crack pattern in the arches (with the possible continuation in the vault) - Rotazioni wall - shear crack pattern in the vault - Out of lead and crushing columns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Old		Crack pattern in the arches (with the possible continuation in the vault) - Rotazioni wall - shear crack pattern in the vault - Out of lead and crushing columns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6- SHEAR MECHANISMS IN SIDE WAALS (LONGITUDINAL ANSWER)								
Vulnerability	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Masonry uniform (the only constructive phase) and of good quality (Adobe) Presence of good openings architraves Presence of orizzontal ledge (reticular metal, masonry army)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (buffered), wall with restricted thickness Orizzontal ledge in AC, heavy coverage in AC.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Damage	Current		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7- LONGITUDINAL ANSWER OF THE COLONNADE OF CHURCHES WITH SIDE AISLE								
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of longitudinal chains Presence of buttresses in front or body appendages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (buffered), wall with restricted thickness Orizzontal ledge in c.a, heavy coverage in c.a.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Damage	Current		Crack pattern in the arches - shear crack pattern in the side vault - Crush and / or crack on the base of the columns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the arches - shear crack pattern in the side vault - Crush and / or crack on the base of the columns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8- VAULT OF CENTRAL AISLE (The vault is not carryng)								
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains into effective place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>		<i>Indicators of vulnerability</i> Presence of concentrated loads transmitted from the coverage Presence of lunette with high dimension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Damage	Current		Crack pattern in the vault or disconnections		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the vault aisle or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

9- VAULT OF SIDE AISLES (The vault is not carrying)								
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains into effective place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	yes <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of concentrated loads transmitted from the coverage Presence of lunette with high dimension	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
Damage	Current		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10- OVERTURNING OF THE END WALLS OF TRANSEPT (The transept is not presented)								
Vulnerability	yes <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of longitudinal chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Presence of effective elements of contrast (buttresses, smeli bodies, other buildings) Good connection with the coverage (beam-chains, controventi) Good interaction between the front wall and side walls	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Vulnerability	yes <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Presence of orizzontal ledge (reticular metal, masonry army, about subtle) <i>Indicators of vulnerability</i> Presence, beams filled AC, heavy coverage Presence of large openings in the front wall (rosette), or in those side Presence of a gable wall with a great size and weight	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
	Damage	Current		Detach of the front wall from the side walls or overtuning in the top	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Old		Detach of the front wall from the side walls or overtuning in the top	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

11- SHEAR MECHANISM IN THE WALL OF THE TRANSEPT (The transept is not presented)						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Masonry uniform (the only constructive phase) and of good quality Presence of good openings architraves Presence of orizzontal ledge (reticular metal, masonry army)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (buffered), wall with restricted thickness Orizzontal ledge in AC, heavy coverage in AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

12- VAULT OF THE TRANSEPT (The transept is not presented)						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains into effective place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of concentrated loads transmitted from the coverage Presence of lunette with high dimension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

13- TRIUMPHAL ARCH (The triumphal arch is not presented)						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Effective enforcement walls (ratio light/width nave) Presence of chains Good ashlar or appropriate thickness Presence of tympanum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of heavy coverage in AC Presence of dome or lantern	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack in the arch - creep of ashlar - Crush on the base of piers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack in the arch - creep of ashlar - Crush on the base of piers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

14- DOME AND THE TIBURIO (We consider the 3 dome under the bell tower)						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of reinforcement ring, even at multiple levels Presence of external buttresses in the drume Dome directly set on triumphal arches (no drum)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of heavy coverage in AC Presence of large openings in drum Presence of concentrated loads transmitted from the coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack in the dome with possible prosecution in drum (Crack alog the meridian of central dome)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack in the dome with possible prosecution in drum (Crack alog the meridian of central dome)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

15- LANTERN (The lantern is not presented)						
Vulnerability	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Presence of external reinforcement ring (internal reinforcement) Presence of external buttresses Size contained compared to those of dome	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Lantern with high slenderness, with large openings and small pillars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack in the dome of lantern - Rotazioni of piers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Old		Crack in the dome of lantern - Rotazioni of piers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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16- OVERTURNING OF THE APSE						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of reinforcement ring, of chains Presence of external buttresses in the drume Presence of braced coverage not pusher	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of strong weakening for the presence of openings in the walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of pushing vault	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of heavy coverage, strut of pitch in AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined or vertical crack in the wall of the apse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Inclined or vertical crack in the wall of the apse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

17- SHEAR MECHANISM IN THE WALL OF THE APSE						
Vulnerability	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Masonry uniform (the only constructive phase) and of good quality Presence of good openings architraves Presence of orizzontal ledge (reticular metal, masonry army)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of large openings (buffered), wall with restricted thickness Orizzontal ledge in AC, heavy coverage in AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

18- VAULT OF APSE (The vault is not carryng)								
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains into effective place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	yes <input checked="" type="checkbox"/> <input type="checkbox"/>	no <input type="checkbox"/> <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of concentrated loads transmitted from the coverage Presence of lunette with high dimension	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
Damage	Current		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the vault aisle or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

19- MECHANISMS OF ELEMENTS IN COVERAGE - SIDE WALLS SIDE								
Vulnerability	yes <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	no <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<i>Aseismatic presidi</i> Presence of orizzontal ledge in AC Presence of local link between beams and walls Presence of braced pitch Presence of good connections between the elements of warping coverage	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
	yes <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of pushing coverage Presence of orizzontal ledge, heavy coverage	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
Damage	Current		Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

20- MECHANISMS OF ELEMENTS IN COVERAGE - TRANSEPT						
Vulnerability	yes <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	no <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of orizzontal ledge in AC Presence of local link between beams and walls Presence of braced pitch Presence of good connections between the elements of warping coverage	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of pushing coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of orizzontal ledge, heavy coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

21- MECHANISMS OF ELEMENTS IN COVERAGE - APSE

Vulnerability	yes	no	<i>Aseismatic presidi</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of orizzontal ledge in AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of local link between beams and walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of braced pitch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of good connections between the elements of warping coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes	no	<i>Indicators of vulnerability</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of pushing coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of orizzontal ledge, heavy coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack near to the heads of wooden beams, sliding them - connectionless between beam and masonry - Movements significant mantle - connectionless and movements among the	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

22- OVERTURNING OF THE CHAPEL (The chapel is not presented)

Vulnerability	yes	no	<i>Aseismatic presidi</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of reinforcement ring, of chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of external buttresses in the drume	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of good connections between frontal wall and side walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of strong weakening for the presence of openings in the walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Detach from the frontal wall to the side walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Detach from the frontal wall to the side walls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

23- SHEAR MECHANISM IN THE WALL OF THE CHAPEL (The chapel is not presented)						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Masonry uniform (the only constructive phase) and of good quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of good openings architraves	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of orizzontal ledge (reticular metal, masonry army)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of large openings (buffered), wall with restricted thickness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Inclined crack (single or cross) - Crack through local discontinuity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

24- VAULT OF THE CHAPEL (The chapel is not presented)						
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains into effective place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of concentrated loads transmitted from the coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of lunette with high dimension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of lunette with high dimension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Crack pattern in the vault or disconnections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

25- INTERACTIONS NEAR OF PLANO-ALTIMETRIC IRREGULARITIES

Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of chains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of an adequate connection between the walls of different stages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of high stiffness difference between the two bodies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Possible actions transmitted from Relay	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Movement of the joint or crack in the masonry for hammering - vertical crack in the less rigid body - Rotation in the highest body	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Movement of the joint or crack in the masonry for hammering - vertical crack in the less rigid body - Rotation in the highest body	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

26- OVERHANG (GABLE - SPIRES - PINNACLES - STATUTES)

Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of pins link with masonry or elements of restraint	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Elements with limited importance and size	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Monolithic masonry (a squared or otherwise of good quality)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Elements with high slenderness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Asymmetric location respect to the underlying element	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Elevated permanent rotations or slide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current		Elevated permanent rotations or slide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old		Elevated permanent rotations or slide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

27- BELL TOWER

Vulnerability	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	<i>Aseismatic presidi</i> Stell internal structure (the only constructive phase) and of good quality	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Presence chains	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence of adequate distance from the walls of the church (where adjacent)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Presence good connection with the walls of the church (if incorporated)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Indicators of vulnerability</i> Presence of significant openings on multiple levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Constraint on asymmetrical walls to the base station (tower incorporated)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Masonry low to the ground on some sides (for porch), tower building on pillars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Damage	Current	Crack near the detachment from the body of the church - shear crack or slider - vertical crack (expulsion of one or more corners)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Old	Crack near the detachment from the body of the church - shear crack or slider - vertical crack (expulsion of one or more corners)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

28- BELL CELL

Vulnerability	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	<i>Aseismatic presidi</i> Presence of piece piers Presence of chains or reinforcement ring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>		<i>Indicators of vulnerability</i> Presence of heavy coverage or other significant masses Presence coverage Pusher	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage	Current	Crack in the arches - rotation or sliding of piers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Old	Crack in the arches - rotation or sliding of piers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

NON SEISMIC DAMAGE

A- FOUNDATION SETTLEMENT		<input checked="" type="checkbox"/>
Damage	Inclined crack 45° - vertical crack - rotation	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
macroelement	front wall <input type="checkbox"/> side walls <input checked="" type="checkbox"/> transept <input type="checkbox"/> apse <input type="checkbox"/> bell tower <input type="checkbox"/>	

B- CRUSHING OF WALLS		<input type="checkbox"/>
Damage	Detach of masonry walls - extended vertical crack for crushing stress	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
macroelement	front wall <input type="checkbox"/> side walls <input type="checkbox"/> transept <input type="checkbox"/> apse <input type="checkbox"/> bell tower <input type="checkbox"/>	

C- ROTATION OF WALLS		<input checked="" type="checkbox"/>
Damage	Out of plumb	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
macroelement	front wall <input type="checkbox"/> side walls <input type="checkbox"/> transept <input type="checkbox"/> apse <input type="checkbox"/> bell tower <input checked="" type="checkbox"/>	

