

ISTOS SURVEY FORM



SECTION 1 – Survey Information

	Day	Month	Year	
Date	□□	□□	□□□□	Group ID
				□□□□□□

SECTION 2 – Building Identification

Block ID	□□□□□□	Building ID	□□□□□□
Address			
	City		Post Code
Building position	<input type="checkbox"/> Isolated	<input type="checkbox"/> Internal	<input type="checkbox"/> Corner <input type="checkbox"/> External
Building orientation	<input type="checkbox"/> 30°	<input type="checkbox"/> 60°	<input type="checkbox"/> 90°

BUILDING IN THE URBAN CONTEXT:

LATITUDE: _____ LONGITUDE: _____

SECTION 3 – Building Information

Property	A <input type="checkbox"/> Public	B <input type="checkbox"/> Private			
Building Type					
A <input type="checkbox"/>	Ordinary	B <input type="checkbox"/>	Industrial	C <input type="checkbox"/>	Sports facility
D <input type="checkbox"/>	Small (e.g. Shack)	E <input type="checkbox"/>	Power station	F <input type="checkbox"/>	Strategic
G <input type="checkbox"/>	Light prefabricated	H <input type="checkbox"/>	Ruins	K <input type="checkbox"/>	Greenhouse
Z1 <input type="checkbox"/>	Other	Z2 <input type="checkbox"/>	Temporary	Z3 <input type="checkbox"/>	Not Identifiable

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Building Utilization								
A	<input type="checkbox"/>	Residential	B	<input type="checkbox"/>	Offices	C	<input type="checkbox"/>	Shops
D	<input type="checkbox"/>	Supermarket	E	<input type="checkbox"/>	Entertainment	F	<input type="checkbox"/>	Theater
G	<input type="checkbox"/>	Hospital	H	<input type="checkbox"/>	Church	K	<input type="checkbox"/>	School / University
L	<input type="checkbox"/>	Bank	M	<input type="checkbox"/>	Public use	N	<input type="checkbox"/>	Consulting services
O	<input type="checkbox"/>	Emergency service	P	<input type="checkbox"/>	Parking	Q	<input type="checkbox"/>	Care services
R	<input type="checkbox"/>	Wholesale shop	S	<input type="checkbox"/>	Warehouse	T	<input type="checkbox"/>	Workshop
U	<input type="checkbox"/>	Heavy industry	W	<input type="checkbox"/>	Light industry			

SECTION 4 – Building Characteristics

Construction Material	
A	<input type="checkbox"/> Reinforced concrete
B	<input type="checkbox"/> Stone masonry
C	<input type="checkbox"/> Adobe
D	<input type="checkbox"/> Tufa
E	<input type="checkbox"/> Clay brick
F	<input type="checkbox"/> Concrete blocks
G	<input type="checkbox"/> Steel
H	<input type="checkbox"/> Timber
K	<input type="checkbox"/> Prefabricated
L	<input type="checkbox"/> RC + Timber
M	<input type="checkbox"/> RC + Prefabricated
N	<input type="checkbox"/> RC + Steel
Number of floors	
□□	
Number of floors above ground	
□□	
Number of apartments	
□□	
Number of basements	
□□	
Number of occupied basements	
□□	
Height of first floor	
□□□□ m	
Minimum height to eave	
□□□□ m	
Maximum height to eave	
□□□□ m	
Finishes	
<input type="checkbox"/> Economic <input type="checkbox"/> Ordinary <input type="checkbox"/> Expensive	
Use	
<input type="checkbox"/> Abandoned <input type="checkbox"/> Not used <input type="checkbox"/> Partially used <input type="checkbox"/> Used	
Exposure	
<input type="checkbox"/> Strategic <input type="checkbox"/> Exposed to special risk <input type="checkbox"/> Ordinary	
Fence with height > 1m	
<input type="checkbox"/> RC <input type="checkbox"/> Masonry <input type="checkbox"/> Rail <input type="checkbox"/> Multiple	

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SECTION 5 – Construction

Period of construction								
A	<input type="checkbox"/>	Before 1920	B	<input type="checkbox"/>	1920 – 1945	C	<input type="checkbox"/>	1946 – 1960
D	<input type="checkbox"/>	1961 – 1974	E	<input type="checkbox"/>	1975 – 1984	F	<input type="checkbox"/>	1985 – 1994
G	<input type="checkbox"/>	1995 – 2012	H	<input type="checkbox"/>	After 2012			

SECTION 6 – Structural Characteristics

Vertical structure								
A	<input type="checkbox"/>	One direction RC frame	B	<input type="checkbox"/>	Two direction RC frame	C	<input type="checkbox"/>	Shear walls
D	<input type="checkbox"/>	Coupled wall	E	<input type="checkbox"/>	Dual system	F	<input type="checkbox"/>	Steel frame
G	<input type="checkbox"/>	Steel frame with bracing	H	<input type="checkbox"/>	Metal frame	H	<input type="checkbox"/>	Timber
K	<input type="checkbox"/>	Single-leaf stone	L	<input type="checkbox"/>	Single-leaf stone with ring beams	M	<input type="checkbox"/>	Double-leaf stone
N	<input type="checkbox"/>	Double-leaf stone with ring beams	O	<input type="checkbox"/>	Double-leaf stone connected with bond stones	P	<input type="checkbox"/>	Adobe
Q	<input type="checkbox"/>	Adobe with ring beams	R	<input type="checkbox"/>	Concrete blocks (no reinforcement)	S	<input type="checkbox"/>	Concrete blocks (with reinforcement)
T	<input type="checkbox"/>	Tufa	U	<input type="checkbox"/>	Clay bricks	Z	<input type="checkbox"/>	Other
Conservation state			<input type="checkbox"/> Poor <input type="checkbox"/> Low quality <input type="checkbox"/> Good <input type="checkbox"/> Excellent					
Wall thickness			<input type="text"/> <input type="text"/> <input type="text"/> cm					
Horizontal structure								
A	<input type="checkbox"/>	Beams with flexible slab	B	<input type="checkbox"/>	Beams with semirigid slab	C	<input type="checkbox"/>	Beams with rigid slab
D	<input type="checkbox"/>	Metal decking and concrete	E	<input type="checkbox"/>	Vaults without tie rods	F	<input type="checkbox"/>	Vaults with tie rods
G	<input type="checkbox"/>	Flat Slab	Z	<input type="checkbox"/>	Other		<input type="checkbox"/>	

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Roof structure						
A	<input type="checkbox"/>	No lateral force	B	<input type="checkbox"/>	Low lateral force	C <input type="checkbox"/> Large lateral force
Z	<input type="checkbox"/>	Other				
Roof shape		<input type="checkbox"/> Flat	<input type="checkbox"/> Single pitch	<input type="checkbox"/> Multi pitch	<input type="checkbox"/> Vault	

SECTION 7 – Cladding (Only for RC buildings)						
Cladding Typology						
A	<input type="checkbox"/>	Thermal insulation	B	<input type="checkbox"/>	Stone	C <input type="checkbox"/> Tuff
D	<input type="checkbox"/>	Timber	E	<input type="checkbox"/>	Metal (eg Alucobond)	F <input type="checkbox"/> Glass
Z	<input type="checkbox"/>	Other				
Cladding thickness		<input type="checkbox"/> <input type="checkbox"/> cm				
Conservation state		<input type="checkbox"/> Poor	<input type="checkbox"/> Low quality	<input type="checkbox"/> Good	<input type="checkbox"/> Excellent	

SECTION 8 – Openings						
Percentage of openings in the façade						
A	<input type="checkbox"/>	< 10%	B	<input type="checkbox"/>	10% - 25%	C <input type="checkbox"/> 26% - 30%
D	<input type="checkbox"/>	31% - 50%	E	<input type="checkbox"/>	> 50%	
Small size windows		<input type="checkbox"/> <input type="checkbox"/>				
Medium size windows		<input type="checkbox"/> <input type="checkbox"/>				
Large size windows		<input type="checkbox"/> <input type="checkbox"/>				
Primary material of the windows						
A	<input type="checkbox"/>	Aluminium	B	<input type="checkbox"/>	PVC	C <input type="checkbox"/> Timber
D	<input type="checkbox"/>	Light metal	E	<input type="checkbox"/>	Fiberglass	Z <input type="checkbox"/> Other

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Protection system of windows								
A	<input type="checkbox"/>	Aluminium	B	<input type="checkbox"/>	PVC	C	<input type="checkbox"/>	Timber
D	<input type="checkbox"/>	Light metal	E	<input type="checkbox"/>	Security (anti-intrusion type)	Z	<input type="checkbox"/>	Other
Conservation state		<input type="checkbox"/> None (or bad) <input type="checkbox"/> Poor <input type="checkbox"/> Good <input type="checkbox"/> Excellent						

SECTION 9 – Interventions								
Period of construction								
A	<input type="checkbox"/>	Before 1920	B	<input type="checkbox"/>	1920 – 1945	C	<input type="checkbox"/>	1946 – 1960
D	<input type="checkbox"/>	1961 – 1974	E	<input type="checkbox"/>	1975 – 1984	F	<input type="checkbox"/>	1985 – 1994
G	<input type="checkbox"/>	1995 – 2012	H	<input type="checkbox"/>	After 2012			
Conservation state		<input type="checkbox"/> Good maintenance <input type="checkbox"/> Upgrade <input type="checkbox"/> Retrofit						

SECTION 10 – Regularity	
Plan regularity	<input type="checkbox"/> Regular <input type="checkbox"/> Irregular
Vertical regularity	<input type="checkbox"/> Regular <input type="checkbox"/> Irregular
Only for RC buildings	
Plan layout	<input type="checkbox"/> Regular <input type="checkbox"/> Irregular
Elevation	<input type="checkbox"/> Regular <input type="checkbox"/> Irregular

SECTION 11 – Factors affecting seismic response								
Soft storey								
A	<input type="checkbox"/>	No pilotis	B	<input type="checkbox"/>	Pilotis on a part of the ground floor	C	<input type="checkbox"/>	Open ground floor (except staircase)
D	<input type="checkbox"/>	Soft storey (on level other than the first)						
Short columns (stocky elements)								
A	<input type="checkbox"/>	None	B	<input type="checkbox"/>	Some	C	<input type="checkbox"/>	Many

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SECTION 12 – Geological characteristics			
Ground Type	<input type="checkbox"/> Type A	<input type="checkbox"/> Type B	<input type="checkbox"/> Type C
	<input type="checkbox"/> Type D	<input type="checkbox"/> Type E	
	<input type="checkbox"/> Type S1	<input type="checkbox"/> Type S2	

NOTES
