POST EARTHQUAKE DAMAGE AND USABILITY ASSESSMENT OF BUILDINGS: FURTHER DEVELOPMENT AND APPLICATIONS

FINAL REPORT









Prepared by

Stavros A. Anagnostopoulos,

Marina Moretti,

M. Panoutsopoulou, D. Panagiotopoulou, T. Thoma



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DISCLAIMER

The information contained in this manual has been compiled with every possible care and reflects current state of knowledge and experience on the pertinent subjects. However, since earthquake engineering is a field with many uncertainties, far from being an exact science, application of the methods, procedures and criteria recommended herein does not guarantee full protection of life and property. It should be applied by competent personnel and only after careful examination of its applicability to the local conditions and structural types.

TABLE OF CONTENTS

Disclaimer	1
Table of Contents	2
List of Exhibits, Tables and Photos.	4
Acknowledgments	5
Photograph and Figure Credits	6
1. PURPOSE AND SCOPE	7
2. THE EMERGENCY INSPECTIONS - INTERVENTIONS OPERATION	N 7
2.1. A brief overview	7
2.2. Objectives of the operation	8
2.3. How is the operation carried out	9
2.3.1 Rapid Assessment	10
2.3.2 Detailed Assessment	10
2.3.3 Reinspections	14
2.4. Procedure of the Damage Assessments	14
2.4.1 Rapid Assessment	20
2.4.1a General Guidelines for the Inspectors	20
2.4.1b Filling in the Inspection Form of Rapid Assessment	21
2.4.2 Detailed Assessment	23
2.4.2a General Guidelines for the Inspectors	23
2.4.2b Filling in the Inspection form of Detailed Assessment	26
2.5. Correlations of damage and colour posting	28
2.5.1 Damage severity	29
2.5.1a Reinforced concrete buildings	29
2.5.1b Masonry buildings	44
2.5.1c Steel buildings	50
2.5.1d Wood buildings	56
2.5.2 Overall assessment of building safety	61

2.6.	Hazard removal and emergency support	65
2.6.	1 Guidelines for filling the Emergency Intervention Form	. 68
2.7.	Field Safety of inspectors	70
2.8.	Legal issues	71
3. OP	ERATIONAL PLAN	72
3.1. T	asks and Responsibilities	72
3.2. C	peration set-up checklist	77
3.3. H	Iuman Resources	78
3.4. N	Naterial and Equipment	. 80
4 THE	E NEW PEADAB SYSTEM	82
4.1. B	Built in rules for posting based on the damage assessment	. 86
5. RE	FERENCES	87
A DDFN	IDIX. PII OT TESTING IN CHANIA	80

LIST OF EXHIBITS

Exhibit 2.1:	Damage Usability and Posting Classification of Buildings
Exhibit 2.2:	Procedure for emergency assessment of building safety after a damaging
	earthquake
Exhibit 2.3a:	Posting Placard for Buildings "SAFE FOR USE" (GREEN)
Exhibit 2.3b:	Posting Placard for Buildings "UNSAFE FOR USE" (YELLOW)
Exhibit 2.3c:	Posting Placard for Buildings "DANGEROUS FOR USE" (RED)
Exhibit 2.4:	Inspection Form for Rapid and Detailed damage Assessment
Exhibit 2.5a:	Damage Severity for R-C structural elements (R-C columns and R-C walls) 33
Exhibit 2.5b:	Damage Severity for R-C structural elements (R-C beams and R-C joints) 34
Exhibit 2.5c:	Damage Severity in non-bearing structural elements of R-C structures 35
Exhibit 2.6:	Typical damage patterns of masonry buildings
Exhibit 2.7:	Damage Severity for masonry buildings
Exhibit 2.8:	Emergency Intervention Form
Exhibit 3.1:	Organizational structure for a large scale emergency damage
	Inspection operation
	LIST OF TABLES
Table 2.1	LIST OF TABLES Typical Damage Severity for Reinforced Concrete Buildings
Table 2.1 Table 2.2	
	Typical Damage Severity for Reinforced Concrete Buildings
Table 2.2	Typical Damage Severity for Reinforced Concrete Buildings
Table 2.2 Table 2.3	Typical Damage Severity for Reinforced Concrete Buildings
Table 2.2 Table 2.3 Table 2.4	Typical Damage Severity for Reinforced Concrete Buildings31Typical Damage Severity for Masonry Buildings45Typical Damage Severity for Steel Buildings51Typical Damage Severity for Wood Buildings57
Table 2.2 Table 2.3 Table 2.4 Table 2.5	Typical Damage Severity for Reinforced Concrete Buildings31Typical Damage Severity for Masonry Buildings45Typical Damage Severity for Steel Buildings51Typical Damage Severity for Wood Buildings57Criteria for assessment of Element damage62
Table 2.2 Table 2.3 Table 2.4 Table 2.5	Typical Damage Severity for Reinforced Concrete Buildings
Table 2.2 Table 2.3 Table 2.4 Table 2.5 Table 2.6	Typical Damage Severity for Reinforced Concrete Buildings
Table 2.2 Table 2.3 Table 2.4 Table 2.5 Table 2.6 Photos 1-26	Typical Damage Severity for Reinforced Concrete Buildings
Table 2.2 Table 2.3 Table 2.4 Table 2.5 Table 2.6 Photos 1-26 Photos 27-32	Typical Damage Severity for Reinforced Concrete Buildings
Table 2.2 Table 2.3 Table 2.4 Table 2.5 Table 2.6 Photos 1-26 Photos 27-32 Photos 33-37	Typical Damage Severity for Reinforced Concrete Buildings 31 Typical Damage Severity for Masonry Buildings 45 Typical Damage Severity for Steel Buildings 51 Typical Damage Severity for Wood Buildings 57 Criteria for assessment of Element damage 62 Criteria for overall assessment in case of different types of damaged structural elements 64 LIST OF PHOTOS Reinforced Concrete buildings 36 Masonry buildings 36 Steel buildings 57 Steel buildings 53
Table 2.2 Table 2.3 Table 2.4 Table 2.5 Table 2.6 Photos 1-26 Photos 27-32	Typical Damage Severity for Reinforced Concrete Buildings

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Stavros A. Anagnostopoulos Principal Investigator

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Exhibit 2.6: by T. Karantoni

1. PURPOSE AND SCOPE

The purpose of this report is to describe further developments in the planning, setting up and execution of building inspection operations under emergency conditions, created by damaging or catastrophic earthquakes. Based on earlier work (2,4,7,8,9) the procedures developed therein were reviewed and modified on the basis of recent experience from damaging earthquakes in Greece and were tested in a pilot trial in the Greek city of Chania, with the purpose of adapting them in the overall earthquake emergency response plan of Greece. The testing included a new version of the computer system PEADAB, developed to support such operations in all their phases: planning, execution and data utilization.

2. THE EMERGENCY INSPECTIONS – INTERVENTIONS OPERATION

2.1. A BRIEF OVERVIEW

The operation of emergency inspections of damaged buildings should start within hours, if possible, after the occurrence of the earthquake. The main tasks of the operation are:

- a) Inspection of all the buildings in the affected area and posting them as to their safety.
- b) Identification of the buildings that require urgent support to avoid collapse, as well as identification of hazards associated with the damaged buildings.
- c) Intervention in critical cases so as to eliminate possible casualties due to secondary (indirect) post-earthquake damages. (Removal of local hazards, support of buildings prone to collapsing, disconnection of utilities such as electricity, gas, etc).

Tasks (a) and (b) are performed by the inspection teams, while task (c) is performed by the intervention crews.

The operation will be organized into 2 phases: The first is a RAPID assessment to identify obviously undamaged hence safe, and obviously unsafe buildings, and a second

DETAILED assessment that will provide the final verdict concerning the building's safety (see Exhibit 2.2).

2.2. OBJECTIVES OF THE OPERATION

A prerequisite for the success of the operation is to have clear and well defined objectives that all the people involved in it will know. In particular, the engineers-inspectors, key personnel in this operation, should keep them always in mind in order to optimise their time and efforts. Ranked by their importance, these objectives are:

Primary objectives:

- Protect human life
- Save properties

Secondary objectives:

- Minimise: (a) the number of homeless and (b) the loss of economic activities, by identifying as soon as possible all buildings that are safe to occupy and use.
- Indicate unsafe areas around hazardous buildings, identify temporary shelter sites and provide the number of required temporary housing units.
- Provide the necessary data for obtaining reliable estimates of the disaster that will allow authorities to take relief measures, formulate disaster mitigation policies and allocate available resources.
- Provide data that will identify frequent causes of damage, so that potential rehabilitation plans may take into account such assessments.
- Provide data for practical research studies that may lead to re-evaluation of existing codes and construction practices, to updates of seismic hazard maps and to elaboration of seismic vulnerability models for pre-earthquake planning purposes.

To be successful in meeting the above objectives, the operation must:

- 1. Be well organised.
- 2. Yield uniformly reliable assessments and damage data.
- 3. Be completed in a short period of time.

2.3. HOW IS THE OPERATION CARRIED OUT

Two types of damage assessment are performed after a serious earthquake: a **Rapid** and a **Detailed** one.

The inspected buildings are classified in one of the three categories listed in Exhibit 2.1. The basic criterion for this classification is the safety of people inside and outside the building. (Reference is made to the original –pre earthquake– seismic capacity of the building). A second criterion is the presence of some hazardous condition, which may exist even in buildings whose seismic capacity has not decreased (e.g. damaged parapets, chimneys etc.).

"SAFE FOR USE" (green colour) are posted the buildings which have experienced minor damage and show no signs of reduction of their original seismic capacity. If local hazards exist, the dangerous area may be barricaded and access to it blocked and marked "UNSAFE FOR USE".

"DANGEROUS FOR USE" (red colour) are characterized the buildings whose original seismic capacity has greatly decreased and thus are prone to sudden collapsing even in minor aftershocks. Entry is prohibited and the need for emergency support as well as protection of the surroundings must be considered.

"UNSAFE FOR USE" (yellow colour) are characterized the buildings with reduced seismic capacity, though not to the extent of being in danger of sudden collapse and they have to be repaired before they could be occupied on a continuous basis. Although some of them may also need emergency support, the risk when entering them for short periods of time, e.g. for removing valuables, securing contents of apartments etc., is deemed to be low (but not negligible). It should be noted that buildings in this category present the greatest uncertainty in the classification; if the inspector has doubts about his evaluation he should be conservative.

For a reliable assessment of the level of damage suffered by a building, uniform classification criteria should be adopted. The guidelines given in chapter 2.5 intend to provide a good basis for this evaluation, but they should always be applied with sound engineering judgement.

2.3.1 Rapid Assessment

The rapid assessment takes place within the first days after the occurrence of the major earthquake. It aims at quickly identifying buildings "safe for use" (GREEN), "unsafe for use" (YELLOW) and also the buildings that are considered as "dangerous for use" (RED). The posting "unsafe for use" (YELLOW) has to be used for all the damaged buildings for which there is uncertainty about the extent to which they have been weakened by the earthquake.

The rapid assessment also intends to identify buildings in need of urgent demolition, local hazards that have to be removed for safety purposes and, in general, safety measures that have to be taken in order to avoid further casualties or injuries.

This assessment ought to take place within the minimum possible time period, in order to prohibit the access to buildings, or to parts of them, which are hazardous. Furthermore buildings safe to live in are assessed as such, and people are encouraged to use them. The completion of the rapid assessment gives a first global aspect to the government of the problems it is going to face.

The rapid assessment is performed by inspection teams of two engineers, usually formed by at least one member of the public sector and the other of public, or of private sector (volunteer professional). It may last 10 to 30 minutes, and is restricted to assessment of the exterior of the building and of the ground story. **Obviously unsafe structures should not be entered.** The most experienced member (or the person from the public sector) of the team is named team leader, and his opinion prevails in case of disagreement between the members of the inspection team.

2.3.2 Detailed Assessment

The detailed assessment follows the rapid inspection and finalizes the characterization of the building.

It is performed primarily only in buildings characterized as YELLOW or RED from the rapid assessment (see Exhibit 2.2) or when the owner can justify an reinspection in case of an initial green posting. It usually takes place when the rapid assessment is completed (with the exception perhaps of buildings of which the functioning is of vital importance, such as factories, schools, public buildings, etc, to which priority is therefore accorded).

After damaging aftershocks, detailed assessment to buildings characterized as GREEN in the rapid assessment may be necessary, or even re-inspection of some of the buildings which have already undergone detailed assessment. (The PEADAB system may provide up to 3 rapid and 2 detailed inspections).

The detailed assessment is carried out by inspection teams of three engineers, usually formed by at least one member of the public sector and the other two of public, or of private sector (volunteer professionals). It may last one to three hours, depending on the size and the importance of the building inspected.

The members of the inspection team may be assisted, if resources permit, by a driver. The most experienced member (or the person from the public sector) of the team is named leader, and his opinion is more valid in case of disagreement between the members of the inspection team. The members of the inspection team may be civil engineers, architects or technical engineers. It is highly recommended that at least one member of each inspection team ought to have previous experience in assessing earthquake damages, especially in the case of the inspection teams for detailed assessment.

This assessment should be performed in all stories and in all the area each story covers, unless, of course, the parts of the building to which access is judged as dangerous.

The detailed assessment may result in changing the posting, or may result also in leaving the same as the rapid. It is also essential that all members of the inspection teams should have previously studied the Field Manual. The organizational chart (see Exhibit 3.1) foresees also a group of trainers which are supposed to explain the objectives and the philosophy of the post earthquake assessment of buildings, as well as the evaluation criteria according to which the damage assessment is to be performed.

It is highly desired that the assessment of damages should be performed as much objectively as possible, which actually is not an easy task given the individual character and knowledge background of the inspectors, as well as the particularities of each building. To this aim, evaluation criteria are formulated (see chapter 2.5) with the intention to eliminate as much as possible the margins of an arbitrary classification. Of course, no general rules may be given, as the engineering judgement in each individual case cannot be substituted. The guidelines given intend to avoid for instance gross mistaken judgements, as met in previous quake events, most usually due to over-conservativeness of the inspectors (due to lack of previous experience).

Posting Classification	Damage State	Usability
SAFE FOR USE (Green)	1-2 = None - Slight	Usable - with possible restrictions

An inspection has shown that the original seismic capacity of the building has not materially decreased and that no major hazard is present. Non observable or slight structural damage. Minor non-structural damage. Use and occupancy allowed, except in areas marked AREA UNSAFE indicating the presence of some local hazard.

UNSAFE	2-3 = Moderate - Heavy	Unusable
FOR USE		
(Yellow)		

The original seismic capacity of the building has been decreased and aftershock hazard may be present. Moderate damage or heavy local damage has occurred. Limited entry is permitted at owner's risk but not usage on a continuous basis. Entry by public prohibited. Repair and/or strengthening is required. The need for emergency support of the building should be considered.

DANGEROUS	3-4 = Severe - Total	Unusable
FOR USE		
(Red)		

Building is unsafe as subject to sudden collapse. Severe structural damage or partial failure has occurred. Entry prohibited (except by authorities) and building surroundings should be protected. Decision on possible repair or demolition should be made after an engineering evaluation of technical possibilities and their economic consequences.

Exhibit 2.1: Damage, Usability and Posting Classification of Buildings

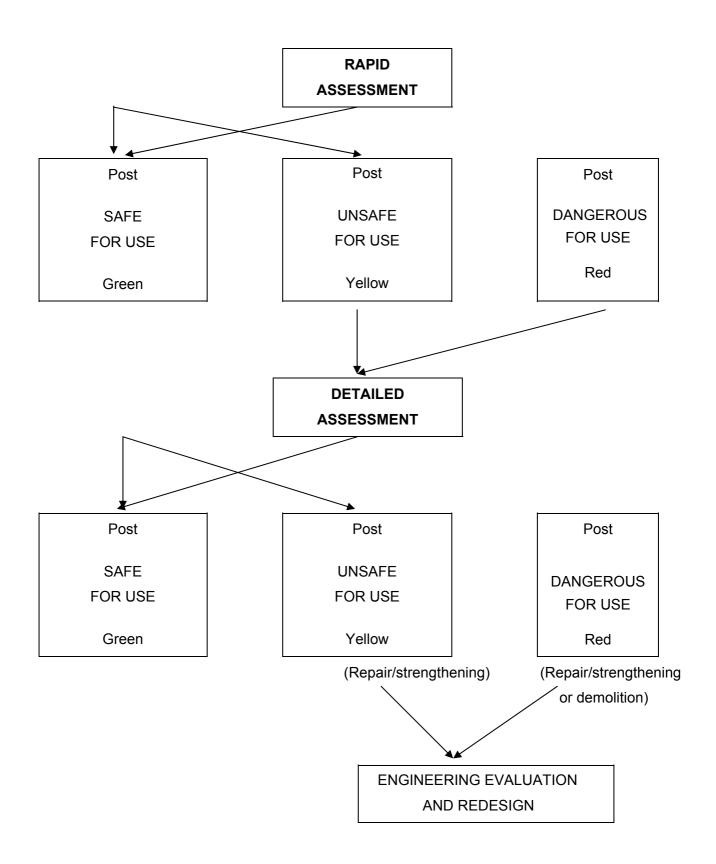


Exhibit 2.2: Procedure for emergency assessment of buildings safety after a damaging earthquake.

2.3.3 Reinspections

The need for reinspection will arise in the event of aftershocks that could change the condition of buildings already inspected. Since the strongest aftershocks occur within a few hours to a few days after the main event, the number of buildings that might have been inspected by then and which will require reinspection will normally be small. After damaging aftershocks, the reinspections will be carried out in the normal mode of operation. If the aftershock is significant, a second detailed assessment may have to be carried out.

Furthermore, reinspection may be required if the owner can justify it in case of an initial green posting or for buildings marked for demolition but whose owners do not give their consent. In such cases, however, and in order to avoid an excessive number of requests, the pertinent application should include the signed opinion of a licensed professional structural engineer providing the arguments in support of the request. Reinspection is performed as a detailed assessment in these cases.

2.4. PROCEDURE OF THE DAMAGE ASSESSMENTS

The inspectors have to fill in a Damage Inspection Form (Exhibit 2.4), in which the characteristics of the buildings inspected, their degree of damage as well as the recommendations for further action will be marked. For the rapid assessment, only the information in normal typing need to be filled, while for the detailed assessment, both the information asked for in normal typing and in italics should be completed.

Furthermore, an appropriate posting placard (Exhibits 2.3 a,b,c), indicating the classification of the building into one of the three categories, will be placed at or near all entrances of the building to be clearly visible by anyone who wants to enter. On the placard the safety measures to be taken, as well as potential hazards requiring immediate removal must also be marked.

To deter removal of the placard, a permanent spot should also be marked on the building next to the placard, using a spray of the same colour i.e. green, yellow or red.

In case some areas are judged as hazardous, access to them should be prohibited and blocked using special barricading tape (red-white strips).

SAFE FOR USE

ADDRESS : DATE OF INSPECTION: CREW No:	TIME:
INSPECTION TEAM [ATA
 Name/ Title Name / Title Name/ Title 	Signature Signature Signature
The building is in general safe and restrictions mentioned.	it may be used under the occasional
restrictions mentioned. TYPE OF INSPECTION	D (2 nd)

DO NOT REMOVE THIS PLACARD UNTIL PERMISSION IS GIVEN BY LOCAL AUTHORITIES

Exhibit 2.3a: Posting Placard for Buildings "SAFE FOR USE" (GREEN)

UNSAFE FOR USE

ADDRESS:	SECTION No:
DATE OF INSPECTION:	TIME:
CREW No:	No REPORT
INSPECTION TEAM D	DATA
1. Name/ Title	Signature
2. Name / Title	Signature
3. Name/ Title	Signature
T	to all and and to the all and the second and the second terms.

The building has suffered damages (as indicated in the inspection form) and it cannot be used before the detailed (2nd) inspection takes place. Entry only at own risk and only for a limited time period. Aftershocks may cause injury or even death. Safety measures stated herein have to be taken immediately.

TYPE OF ASSESSME	ENT	
RAPID (1 st)	DETAILED	(2 nd)
RESTRICTIONS IN U	SE - SAFETY MEA	ASURES TO BE TAKEN
URGENT SUPPORT REQI	JIRED 🗌	
ACCESS TO THE FOLLOW	WING AREAS IS PRO	HIBITED:
THE FOLLOWING ELEMEN	NTS SHOULD BE DEN	MOLISHED OR REMOVED:
THE FOLLOWING UTILITIE	ES MUST BE DISCON	NECTED:
ELECTRICITY	WATER \square	gas 🗆
OTHER:		

DO NOT REMOVE THIS PLACARD UNTIL PERMISSION IS GIVEN BY LOCAL AUTHORITIES

Exhibit 2.3b: Posting Placard for Buildings "UNSAFE FOR USE" (YELLOW)

DANGEROUS FOR USE

ADDDECC .	CECTION No.	
	SECTION No:	
	TIME:	
CREW No:	REPORT No	
INSPECTION TEAM [DATA	
1. Name/ Title	Signature	
2. Name / Title	Signature	
3. Name/ Title	Signature	
Danger of partial or total collapse of the building and serious danger of injury or death. Entry is prohibited. Safety measures stated herein have to be taken immediately. Detailed inspection will follow. (This posting does not necessarily imply demolition of the building).		
(This posting does not necessarily imp		
(This posting does not necessarily imp	ED (2 nd)	
(This posting does not necessarily important TYPE OF ASSESSMENT RAPID (1st) DETAILED	ED (2 nd)	
TYPE OF ASSESSMENT RAPID (1st) DETAILE URGENT RE-INSPECTION DUE T	ED (2 nd)	
TYPE OF ASSESSMENT RAPID (1st) DETAILE URGENT RE-INSPECTION DUE TO SAFETY MEASURES TO BE TAKEN	ED (2 nd)	
TYPE OF ASSESSMENT RAPID (1st) DETAILE URGENT RE-INSPECTION DUE TO SAFETY MEASURES TO BE TAKEN URGENT SUPPORT REQUIRED	ED (2 nd)	
TYPE OF ASSESSMENT RAPID (1st) DETAILE URGENT RE-INSPECTION DUE TO SAFETY MEASURES TO BE TAKEN URGENT SUPPORT REQUIRED	ED (2 nd) TO POSSIBLE COLLAPSE DEMOLISHED OR REMOVED	
TYPE OF ASSESSMENT RAPID (1st) DETAILE URGENT RE-INSPECTION DUE TO SAFETY MEASURES TO BE TAKEN URGENT SUPPORT REQUIRED THE FOLLOWING ELEMENTS SHOULD BE DETAILED.	ED (2 nd) TO POSSIBLE COLLAPSE DEMOLISHED OR REMOVED	

DO NOT REMOVE THIS PLACARD UNTIL PERMISSION IS GIVEN BY LOCAL AUTHORITIES

Exhibit 2.3c: Posting Placard for Buildings "DANGEROUS FOR USE " (RED)

FFICE	F	CrewNo:
INSPECTION FORM:	RAPID ASSESSMENT (1st)	DETAILED ASSESSMENT* (2 nd)
*The information in	italics need not be filled in a	during the rapid (1 st) assessment
Street	NoPostal CodeOr Streets surrounding bloc4.	e
-	· • •	ides free)
Number of stories Number		2, approx.)
Type of structural system: (see bac Soft or weak story (e.g. pilotis, etc) Semi-basement YES \square NO \square ,	ck page)	e) GROUND STORY \square STORIES \square =None $1 = In \ height \ 2 = In \ layout \ 3 = Both$
		3 = Moderate - Heavy 4 = Severe - Total 3 = Few to several 4 = Several to many
STAIRS \square \square	BEARING WALLS IN	RAME JOINTS
Apparent ground problems:	\Box 1= None 2 = Settlement	3 = Liquefaction 4 = Slope movement
5 = Ground fissures 6 = Rockfall	1s 7 = Other (explain)	
Indirect damage: 1=None	e 2=Pounding to adjacent building	3=Fire 4=Other (explain)
Inspected: Exterior \Box Grou	and story \square 1^{st} $story \square$	Other stories
D OVEDALL ASSESSMENT EO	OR USE (See back page for explanations	a).
Safe for use (GREEN)	Unsafe for use (YELLOW)	Dangerous for use (RED)
The assessment made is: for the	e whole building: for part of the	building:
HUMAN LOSSES (if known):	Number of deaths	Number of injuries
ACTION TO TAKE: \Box 4 = Combination of actions 2 and 3	1 = None 2 = Remove local h 5 = Urgent re-inspection required.	azards* 3 = Urgent support required 6 = Urgent demolition required
Urgency: \Box 1 = Low	2 = Medium $3 = High$	
	hibited and must be blocked	eer □ gas □
SPECTION TEAM DATA		
Signature		3. Signature
Name/ Title		Name /Title
SPECTION FORM RECEIVED BY ecipient's Signature	,	ger Other Dote
corprom a dignature	INAILIE	Date

Data for filling the form

USAGE

= Open	(pilotis)
l	= Open

20 = Office

30 = Commercial shop

40 = Hospital/clinic 41= Social welfare (retirement home, daycare center, etc)

50 = Administrative (central or local government) except critical services

51 = Police 52 = Fire station 53 = Communications

54 = Energy production or distribution 55 = Water distribution-management

60 = Public Assembly 61 = Schools 62 = Historical and religion 63 = Sports

64 = Culture / Entertainment (museum, theatre, etc)

70 = Hotel 71 = Restaurant, Café, Bar, etc 80 = Industrial 81 = Small production units 90 = Parking 91 = Other (specify)

TYPE OF STRUCTURAL SYSTEM

10 = Masonry 11 = Wooden floors and roof, no belts

12 = Wooden floors and roof, with horizontal belts

13 = Concrete floors and roof, no belts

14 = Concrete floors and roof, with additional belts

15 = Concrete floors, no belts

16 = Concrete floors, with additional belts

20 = Reinforced Concrete 21 = Frame type with infill walls (brick, etc)

cast in place 22 = Frames and shear walls with infill walls (brick,etc)

23 = Frame type with lightweight partitions

24 = Frames and shear walls with lightweight partitions 25 = Frames with infill walls and lightweight partitions

26 = Frames and shear walls with infill walls and lightweight partitions

30 = Prefabricated concrete 31 = Frame type

32 = With panels

40 =Steel frames

50 = Mixed 51 = Composite (Concrete and steel)

52 = Masonry and concrete

60 = Wood frames

EXPLANATIONS FOR POSTING (Correlation with damage in Tables A1 to A4 of the Field Manual)

Safe for use (GREEN)	The building is generally safe and may be used subject to any posted restrictions.
Unsafe for use (YELLOW)	The building has suffered damage as indicated and must not be used before a detailed (2 nd) inspection is performed. Entry permitted at own risk and only for a limited period of time. Aftershocks may cause injury or even death. Safety measures stated herein must be taken immediately.
Dangerous for use (RED)	Danger of partial or total collapse of the building and serious danger of injury or death. Entry is prohibited. Safety measures stated herein must be taken immediately. Detailed inspection will follow. This posting does not necessarily imply demolition of the building.

COMMENTS:	 	

2.4.1 Rapid Assessment

2.4.1.a General Guidelines for the Inspectors

1. Examine visually:

- The building from the outside (all sides that are easily accessible) for obvious signs of distress (partial collapse, fractured structural members, ground and foundation problems). Look for signs of residual drift (building or parts of it out of plumb), damage to chimneys and roof, to exterior walls, to the façade etc. Care should be exercised for possible preexisting out of plumb.
- The ground storey, whether open (pilotis) or built. **Obviously unsafe structures** should not be entered. Look for damage to all visible structural elements, especially columns, shear walls, core elements, beams and stairways. Look for potential residual movement of vertical elements. Also check all infill or partition walls.
- Any part of the building for which the occupants report significant damage. Usually
 only the exterior of the building and the ground floor should be inspected.
 Obviously unsafe structures should not be entered.
- The ground around the building. Look for settlements, ground fissures, signs of liquefaction and, in case of hillside buildings, for signs of slope movement and rock fall hazards.
- 2. Post RED obviously unsafe buildings without entering them.
- 3. In case of doubts be conservative but not on a systematic basis.
- 4. Pay special attention to the recommendations for further action (i.e. removal of local hazards, need for urgent support, disconnection of utilities, etc.), as well as to the level of urgency, as it may save properties or even lives.
- 5. Barricade hazardous and unsafe areas with red-white tape and prohibit access to them.

- 6. Post the building according to the results of the assessment. Fill and sign the appropriate posting placard (Exhibits 2.3) at or near all entrances of the building to be clearly visible by anyone who wants to enter. Mark also a spot next to the placard using a spray of the same colour i.e. green, yellow or red.
- 7. Give a copy of the signed inspection form to the owner or the building manager, discuss the purpose and meaning of the posting with the occupants of the building and advise them accordingly.

2.4.1b Filling in the Inspection Form of Rapid Assessment

- Only the vertical squares have to be filled in the Rapid Assessment.
- A square left blank implies that the corresponding parameter does not exist.
- In case of disagreement between Inspectors the opinion of the team leader prevails.

Section A: Building Location and ID

Information about the location of the building.

- Section No: It is provided by the Field Office. If not available from earlier

planning, it must be defined by dividing the area affected by the

earthquake.

- **Block No**: It may not exist for a specific area.

- Streets surrounding Give the road names in sequence.

block: They are indispensable in case no block number exists, or if no

GIS map of the area exists.

Section B: Description of the Building

- Information such as: Number of apartments, area of story, year of construction etc.,
 may be found by asking the inhabitants, otherwise should be estimated.
- For Type of Structural System and for Usage, the Tables accompanying the Inspection
 Form should be consulted.

Section C: Severity and Extent of Damage

In the Rapid Assessment only the Severity of damage should be reported for each type of structural element. The assessment is made according to the instructions given for each type of structural element (see Exhibits 2.5a-2.5c, 2.7, Tables 2.1-2.4 and pertinent Photos).

No damage is indicated using 1=None.

Blank squares mean the particular type of element does not exist.

Section D: Overall Assessment for Use

The Overall Assessment for Use is made only after the observed damage has been recorded and assessed. The guidelines given in Tables 2.1 to 2.6 and the pertinent photos, should be consulted. Engineering judgment must be exercised, taking into account that the basic criterion is safety and not repair costs.

Although in the rapid assessment the extent of damage need not be reported, an overall judgement of the extent of damage is possible.

- If the building is generally safe except that some local hazard is present (Section F marked), post the building as SAFE with restrictions.
- Post yellow or red if ground problems are present and their severity cannot be assessed.

Section F: Action to take

Specify any urgently required measures along with the degree of urgency.

These could be urgent demolition of the whole building, removal of local hazard (e.g. removal of a hazardous chimney, parapet wall), urgent support, etc. Intervention crews will be scheduled to be sent in accordance with the degree of urgency.

In addition, if utilities must be disconnected it should be indicated on the form.

Hazardous areas around the building must be properly barricaded.

Comments

Provide any comments deemed necessary either to explain the posting or the assessment of damage, or to explain information given in the form.

Signatures

All members of the inspection team should sign and write their names and titles.

A copy of the Inspection Form must be given to the building owner or manager, who has to sign the form.

Estimated time

Spend no more than 10-30 minutes per building.

2.4.2 Detailed Assessment

2.4.2a General Guidelines for the Inspectors

- 1. Request from the field office the Inspection form from the Rapid Assessment. Copy data in Sections A and B from the Rapid Assessment form, correcting errors and filling missing data.
- 2. Examine from outside (before entering the building):
 - All sides of the building that are accessible. Look for signs of residual drift (building or parts of it out of plumb), damage to chimneys and roof, to exterior walls, to the façade etc. Care should be exercised for possible preexisting out of plumb.
 - The site for ground problems or geological hazards. Look for settlements, ground fissures, signs of liquefaction and, in case of hillside buildings, for signs of slope movement and rock fall hazards.

- 3. Examine the building interior:
 - Before entering the building look for any type of life threatening hazards. Do not enter obviously unsafe buildings.
 - Check carefully the type of structural system and look for irregularities, making every
 effort to identify the load transfer mechanism for gravity and earthquake loads Look
 at exposed areas such as open ground stories (pilotis), basements, stairwells or
 mechanical floors.
 - Proceed from the ground story upwards and inspect every floor including penthouse and roof. Examine all visible structural elements, paying special attention to the vertical members (columns, shear walls) and to any observable residual drift. Move removable panels to view structural components, but do not do any destructive exploration other than local plaster removal to check whether cracks in mortar extend to the structural elements. Inspect for non-structural damage and take note of any potential hazards. Examine if the cracks in infill walls are visible on both sides of the wall or are only restricted to the plaster. If needed, remove the plaster locally.
 - In concrete buildings with masonry infills, the infills are the first line of defense, followed by elevator core or shear wall elements, if any, while the frames come last. It is not uncommon with such buildings to have heavily cracked infills and no visible damage in the main structural elements. Since their seismic capacity is obviously reduced, such buildings are cases that would normally be posted YELLOW.
 - Inspect the basement for foundation problems, uneven settlements, fractured slabs, displaced columns at base and fractured or bowing perimeter walls.
 - Inspect stairs and elevators and if elevator damage is suspected make sure that its power is shut-off.
 - Look for spills in areas where chemicals or other hazardous materials are stored.
- On the basis of the detailed inspection and with the indicative damage descriptions in Tables 2.1-2.4, Exhibits 2.5 a,b,c, 2.7 and with the pertinent photos as a guide, fill in section C of the Inspection form recording both the severity and extent of damage. Fill in Section D of the form on the basis of the rules given in Tables 2.5, 2.6 of this report,

keeping in mind that safety of the occupants is the basic criterion (see Exhibit 2.1). If the building is generally safe except that some local hazard is present (Section F marked), indicate the building GREEN with restrictions. Indicate YELLOW or RED if ground problems are present and their severity cannot be assessed. The new posting may be different from that of the Rapid assessment

- 5 In case of doubts be conservative but not on a systematic basis.
- Pay special attention to any urgently required safety measures along with the degree of urgency, unless such measures have already been taken (due to a previous Rapid Assessment).
- 7 Barricade hazardous and unsafe areas with red-white tape and prohibit the access to them.
- Post the building according to the results of the assessment. Fill and sign the appropriate placard (SAFE, UNSAFE, DANGEROUS) and post every entrance. If the building was already posted following a rapid assessment, replace the old placards. Mark also a spot next to the placard using a spray of the same colour i.e. green, yellow or red.
 - If the building is posted GREEN with restrictions, barricade the unsafe area and post it as AREA UNSAFE.
- Give a copy of the signed inspection form to the owner or the building manager, discuss the purpose and meaning of the posting with the occupants of the building and advise them accordingly. In particular, explain that this inspection will not be used as the basis for receiving financial aid for repair works.

Estimated time

Depending on the size of the building, it is anticipated that a detailed inspection could take anywhere from one to three hours.

2.4.2b Filling in the Inspection Form of Detailed Assessment

- The whole building should be inspected, unless it is obviously unsafe. In this case, an estimation of the damages should be made only from exterior examination of the building.
- Both vertical and tilted squares have to be filled at the Detailed Assessment.
- A square left blank implies that the corresponding parameter does not exist.
- In case of disagreement between Inspectors the opinion of the team leader prevails.

In the following, explanatory details are given only for the information asked for in the detailed inspection, which was not supplied in the rapid inspection.

Section A: Building Location and ID

Information about the location of the building is filled only in case it was not filled in the Rapid Assessment or if errors are discovered.

Section B: Description of the Building

- Make every effort to identify the type of structural system and the load transfer mechanism for gravity and earthquake loads.
- Information on number of basements and on multi-level foundation should be filled in only if it is available from the building owners or if entering the basement poses no hazard

Section C: Severity and Extent of Damage

In the Detailed Assessment, both the Severity and the Extent of damage should be recorded for each type of structural element. The assessment is made according to the instructions given for each type of structural element (see Exhibits 2.5 a,b,c, 2.7, Tables 2.1-2.4 and the pertinent photos).

In case different degrees of damage for the same type of element exist, (e.g. damaged columns with level of severity 2 to 4) the most heavy level of damage is indicated and for this level of damage the respective extent of damage is recorded.

If some blocks are left blank, it is implied that the particular element does not exist.

Section D: Overall Assessment for Use

The Overall Assessment for Use should be made by taking into account Tables 2.5, 2.6 which combine the (highest observed) severity of element damage with an estimate of its extent (number or elements having suffered the particular level of damage) as recorded in section C of the form.

It is pointed out that the correlation between damage assessment and posting color on the basis of severity and extent of damage is indicative and should not be followed blindly. The final Assessment should be based on sound engineering judgement keeping in mind that safety of the occupants, not repair costs, is the basic criterion (see Exhibit 2.2).

If the building is generally safe except that some local hazard is present (Section F marked), post the building as SAFE (Green) with restrictions.

Post YELLOW or RED if ground problems are present and their severity cannot be assessed.

The new posting may be different from that of the Rapid assessment

Section F: Action to take

If emergency measures dictated by the rapid assessment have already been taken, then no action to take is marked.

2.5. CORRELATIONS OF DAMAGE AND COLOR POSTING

The overall assessment for use of buildings (GREEN, YELLOW, or RED) takes into account the severity and extent of damage of the various elements. For both, severity and extent of damage, a one to four numerical scale has been adopted and is described verbally as follows:

DAMAGE SEVERITY

- 1 = None
- 2 = Slight
- 3 = Moderate to Heavy
- **4** = Severe to Total

EXTENT OF DAMAGE*

- 1 = None
- 2 = 1 to Few
- 3 = Few to Several
- **4** = Several to Many
- * Extent of damage refers to the number of elements with the particular damage severity marked.
- ⇒ **Damage Severity** of the various structural and non-structural elements for different types of buildings is decided with the aid of the guidelines given in Tables 2.1 to 2.4 and Exhibits 2.5a, 2.5b, 2.5c and 2.7.
- ⇒ Guidelines concerning **the Overall assessment for Use** (correlating Damage Severity and Damage Extent) are shown in Tables 2.5, 2.6.

Note that in the rapid assessment the extent of damage is not recorded, since the inspection is done usually without entering the building except, perhaps, at the ground level, and thus the assessment is based on the observed damage externally, following the general guidelines in the pertinent Tables and taking into consideration how critical the

damaged elements are for the safety of the building (e.g damage in columns versus damage in beams).

2.5.1. Damage Severity

In what follows, criteria are given for assessing the Severity of damage in relation to various types of failure for buildings with structural system of Reinforced Concrete, Masonry, Steel and Wood. The criteria for steel and wood buildings are only preliminary since the emphasis in this study was in the most common types of buildings in Greece, i.e Reinforced Concrete and Masonry buildings.

It is further noted here that the various damage descriptions listed in the following Exhibits and Tables are indicative of the corresponding level and that the presence or absence of one type of damage given in a list does not necessarily imply classification or no classification in the respective category. Sound engineering judgement will always be required and the guidelines listed herein must be used as an aid rather than a substitute for such judgement.

2.5.1a Reinforced concrete buildings

Reinforced concrete buildings constitute the dominant type of construction in the earthquake prone countries of Europe. They can be found as single story houses, multistory residential or office buildings, industrial complexes etc. Concrete construction can be cast in place or pre-cast or a combination of both.

Cast in place concrete buildings constructed before modern codes were introduced (i.e. before ~ 1980) can be quite vulnerable to strong earthquakes, especially if they were built under poor quality control. The majority of multi-story buildings that have collapsed in catastrophic earthquakes of the recent past belong to this category and are responsible for most of the recorded human loses. Their design, not based on the modern concepts of ductile behaviour, good confinement, strong columns-weak beams, strong shear walls with specially detailed boundary elements etc., makes them quite more vulnerable than the new buildings designed on the basis of modern codes. Older structures are likely to have poor detailing so that an earthquake with several cycles of strong shaking could cause rapid

strength deterioration that should become visible from the damage of the load carrying vertical members.

In many of the concrete buildings, the partition walls are brick infills that are normally not accounted for in design (according to normal practice so far). Experience from damaging earthquakes in Greece has shown that such infills had a very beneficial effect that may have saved several poor quality buildings from collapse. Being quite stiff, brick infills attract most of the earthquake induced forces in the first few cycles of shaking, suffering extensive cracking as a result. This cracking contributes to an increase in damping and hence to a reduction in the forces transmitted to the concrete members. Thus, the infills act as a first line of defence against the earthquake, offering substantial protection to the load carrying concrete structure. Heavily damaged infill walls, however, can be quite hazardous posing a threat to people. Thus, given that safety of the occupants is the main objective of this emergency inspection, the damage to infills should be assessed accordingly (as suggested in the pertinent Tables below).

Prefabricated concrete buildings are damaged typically in their connections, which must be the first areas to be inspected.

In Table 2.1 the levels of Damage Severity of RC buildings are related to the expected modes of failure. In Exhibits 2.5a to 2.5c the damage severity of RC structural bearing elements is depicted in relation to the expected crack patterns. In a way, Exhibits 2.5a to 2.5c give the same information as Table 2.1 for RC elements and infill walls but include also some sketches.

Table 2.1 Typical Damage Severity for Reinforced Concrete Buildings

DAMAGE SEVERITY DESCRIPTION

- 1 = None
- 1. No signs of any distress
- 2. Very light non-structural damage
- 3. Fine cracks in few infill walls and in the mortar. Light spalling of concrete.
- 2 = Slight
- 1. Small cracks ($d \le 3.0$ mm) in a few infill or partition walls.
- 2. Some spalling of concrete. Cracks in some structural elements. Indicative crack widths are:

Beams: $d_{diag} \leq \sim 0.5 \text{ mm}, d_{vert} \leq \sim 2.0 \text{ mm}$

Columns: $d_{diag} \leq \sim 0.5 \text{ mm}, d_{horiz} \leq \sim 2.0 \text{ mm}$

Shear Walls: $d_{diag} \leq \sim 0.5 mm$, $d_{horiz} \leq \sim 1.0 mm$

Stairs: $d \le \sim 3.0 \text{ mm}$

Slabs: $d \le \sim 1.0 \text{ mm}$

- 3. Disturbance, partial sliding or falling down of roof tiles.
- 4. Cracking or partial failure of chimneys and parapets.
- 5. Inclination of building barely visible.

3 = Moderate-Heavy

- Extended large diagonal or other cracking in partition or infill
 walls (d >3.0 mm) in one or more stories. Detachment or partial
 failure of walls.
- 2. Spalling-partial disintegration of concrete. Larger cracks in several structural elements. Indicative crack widths are:

Beams: $d_{diag} \le \sim 2.0 \text{ mm } d_{vert} \le \sim 4.0 \text{ mm}$

 $Columns: \quad d_{diag} \leq 2.0 \; mm, \quad d_{horiz} \leq \; 5.0 \; mm$

Shear walls: $d_{diag} \le 1.0 \text{ mm}$, $d_{horiz} \le 3.0 \text{ mm}$

Joints: $d \le \sim 2.0 \text{ mm}$

Stairs: $d \le \sim 10.0 \text{ mm}$

Slabs: $d \le \sim 2.0 \text{ mm}$

Table 2.1 (cont.): Typical Damage Severity for Reinforced Concrete Buildings

- 3. Dislocation-partial collapse of chimneys and parapets. Sliding and failure of roof tiles.
- 4. Visible inclination of building. Slight dislocation of structural elements.
- 5. Minor ground movement but no signs of foundation failure

4 = Severe-Total

- 1. Partial or total collapse.
- 2. Widespread failure of infill walls or severe cracking visible from both sides in one or more storeys.
- 3. Large number of crushed structural elements and connections, disintegration of concrete, exposure and buckling of reinforcement in several locations. Indicative crack widths are:

Beams: $d_{\text{diag}} > 2.0 \text{ mm}, d_{\text{vert}} > 4.0 \text{ mm},$

Columns: $d_{diag} > 2.0 \text{ mm}, d_{horiz} > 5.0 \text{ mm}$

Shear Walls: $d_{diag} > 1.0 \text{ mm}, d_{horiz} > 3.0 \text{mm}$

Joints: $d_{diag} > 2.0 \text{ mm}$

Stairs: d > 10.0 mm

- 4. Collapse of chimneys and parapets. Extensive damage and/ or sliding of the roof.
- 5. Considerable dislocation of structural elements, residual drift in any storey or dislocation of the whole building
- 6. Substantial ground movement, uplift of footings or fracture of foundation beams, fracture or bowing of basement perimeter walls etc.

Notes: 1. Falling hazards are cause for marking "AREA INADEQUATE FOR USE" and for barricading it.

2. In prefabricated buildings, attention should be given to the connections of structural elements, to the regions of floor or roof support and to possible residual displacements of vertical elements (wall panels or columns).

Damage		R-C COLUMNS		R-C	R-C SHEAR WALLS	
Severity						
1	•	Fine cracks in mortar		• No 1	No visible cracks	
None		Light spalling of concrete				
	•	$d_{horiz} \le 2.0 \text{ mm}$	1	dhoriz	d _{horiz} < 1.0 mm	1
7	•	$d_{diag} \le 0.5 \text{ mm}$	\ 	• d _{diag}	$d_{diag} < 0.5 \text{ mm}$	
Slight	• 1	Spalling of concrete				
3	•	• $d_{horiz} \le 5.0 \text{ mm}$	I L	dhoriz	$d_{horiz} \le 3.0 \text{ mm}$	
Moderate-	•	$d_{diag} \le 2.0 \text{ mm}$	The state of the s	 ddiag 	$d_{diag} \leq 1.0 \text{ mm}$	
Heavy	•	Partial disintegration of concrete		• Spal	Spalling of concrete	
4	•	5.0 mm < dhoriz		• 3.0 r	3.0 mm < dhoriz	
Severe-	•	$2.0 \text{ mm} < d_{\text{diag}}$		• 1.0 r	$1.0 \text{ mm} < d_{\text{diag}}$	
Total	•	Extensive disintegration of		• Disi	Disintegration of concrete	
	•	concrete Buckling of longitudinal reinforc.				

: vertical and horizontal cracks (to the axis of the element), respectively : diagonal cracks (inclined to the axis of the element) dvert, dhoriz Notation: d_{diag}

Exhibit 2.5a: Damage Severity in Reinforced Concrete structural elements (R-C columns and R-C walls)

Damage	_	R-C BEAMS		Ä	R-C JOINTS	
Severity						
,						
-	•	 Fine cracks in mortar 				
None						
	•	$d_{vert} \le 2.0 \text{ mm}$		 Spalli 	Spalling of concrete at the	<u> </u>
7	•	$d_{diag} \le 0.5 \text{ mm}$		corners	S	
Slight	•	Spalling of concrete				
8	•	• d _{vert} < ~ 4.0 mm	-	• Spalli	Spalling of concrete	
Moderate-	•	$d_{diag} \le \sim 2.0 \text{ mm}$		• Inclin	Inclined cracks	Ţ
Heavy	• 1	Extensive spalling and crushing of concrete		~ ∨ı p	d ≤ ~ 2.0 mm	
4	•	4.0 mm < d _{vert}	_	 Diago 	Diagonal cracks	1
Severe-	•	$2.0 \text{ mm} < d_{\text{diag}}$	73	2.0 m	2.0 mm < d _{diag}	
Total	•	Buckling of reinforcement		• Disini	Disintegration of concrete	
-		_				+
	-					

: diagonal cracks (inclined to the axis of the element) ddiag dvert, dhoriz Notation:

: vertical and horizontal cracks (to the axis of the element), respectively

Exhibit 2.5b: Damage Severity in Reinforced Concrete structural elements (R-C beams and R-C joints)

Damage Severity	STAIRS	INFILL WALLS	CHIMNEYS-PARAPETS ROOF	INCLINATION OF BUILDING
1 None	Hairline cracks on plaster	Hairline cracks on plaster	• None	• None
2 Slight	d < 3,0 mmSpalling of concrete	• Small cracks d < 3,0 mm of limited length	 Cracking or partial failures of chimneys and parapets Disturbance, sliding or falling down of roof tiles 	Barely visible out of plumb
3 Moderate- Heavy	 3,0 mm < d ≤ 10,0 mm Exposure of reinforcement 	 Large diagonal or other cracks (d >3,0mm) extending over all the surface Separation from boundary elements 	 Generalized disturbance of chimneys Drift or partial collapse of chimneys and parapets Dislocation of roof tiles Local failure of roof 	• Small visible out of plumb. Residual displacements of bearing elements
4 Severe- Total	 10,0 mm < d Disintegration of concrete Residual displacements 	 Large cracks visible from both sides Disintegration Partial or total collapses 	 Collapse of chimneys and parapets Extensive sliding of roof Partial or total collapse of roof 	Considerable out of plumb. Residual displacements of bearing elements

Exhibit 2.5c: Damage Severity in non-bearing structural elements of R-C structures

R-C COLUMNS



Photo 1: Damage severity 1



Photo 2: Damage severity 1



Photo 3: Damage severity 2



Photo 4: Damage severity 3

R-C COLUMNS

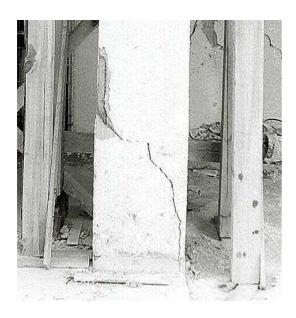


Photo 5: Damage severity 3



Photo 6: Damage severity 3



Photo 7: Damage severity 4



Photo 8: Damage severity 4

RC - SHEAR WALLS



Photo 9: Damage severity 2-3

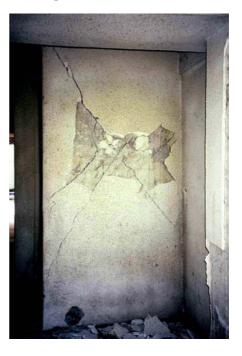


Photo 10: Damage severity 2-3



Photo 11: Damage severity 4



Photo 12: Damage severity 4

RC - BEAMS



Photo 13: Damage severity 2



Photo 14: Damage severity 2-3



Photo 15: Damage severity 3



Photo 16: Damage severity 3

RC - JOINTS



Photo 17: Damage severity 3



Photo 18: Damage severity 4



Photo 19: Damage severity 4

RC - STAIRS



Photo 20: Damage severity 2-3

RC - INFILL WALLS



Photo 21: Damage severity 1-2



Photo 22: Damage severity 2



Photo 23: Damage severity 3



Photo 24: Damage severity 3

RC – INFILL WALLS



Photo 25: Damage severity 4



Photo 26: Damage severity 4

2.5.1b Masonry buildings

Masonry buildings may have been built from a variety of materials (e.g. stone, hollow or solid bricks, special concrete blocks) and in a variety of ways (e.g. with or without steel reinforcement, with or without horizontal or other belts etc.).

In Table 2.2 and in Exhibit 2.7 the levels of Damage Severity of Masonry buildings are related to the expected modes of failure. Exhibit 2.6 shows typical crack patterns in the exterior walls of Masonry buildings.

The guidelines given are general enough to cover all cases but here again sound engineering judgement should be exercised, taking into account the great variability in the mechanical properties of the bearing masonry walls.

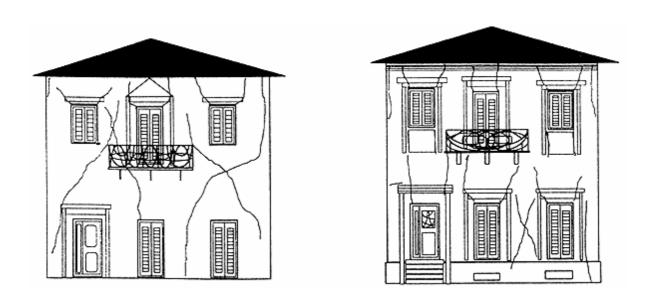


Exhibit 2.6: Typical damage patterns of masonry buildings

Table 2.2 Typical Damage Severity for Masonry Buildings

DAMAGE SEVERITY

DESCRIPTION

- 1 = None
- 1. No signs of any distress.
- 2. Hairline cracks in partition walls visible from one side only.
- 2 = Slight
- 1. Small cracks in partition walls visible from both sides ($d \le 3$ mm).
- 2. Small cracks in bearing walls, starting mostly at the corners of a few openings ($d \le 3$ mm).
- 3. Patches of mortar falling from ceilings or walls.
- 4. Disturbance, partial sliding and falling down of some roof tiles.
- 3 = Moderate Heavy
- 1. Substantial cracking of partition walls ($d > \sim 3.0$ mm).
- 2. Diagonal cracking in bearing walls ($d < \sim 5.0$ mm), but not so extensive as to constitute failure.
- 3. Movement, separation or local failure of roof and floor framing supports.
- 4. Dislocation and/ or partial collapse of chimneys, parapets or roofs.
- 5. Local heavy damage in some part of the building
- 4 = Severe Total
- 1. Bearing walls with large cracks ($d > \sim 5.0$ mm), visible from both sides.
- 2. Partial or total failure of bearing walls, floors and/or roof
- 3. Walls out of plumb.
- 4. Failure of floor and roof support areas and dislocation of their framing.
- 5. Any type of damage indicating considerable danger for collapse.

Note Falling hazards are cause for marking AREA INADEQUATE FOR USE and for barricading it.

Damage Severity	MASONRY	
1 None	Hairline cracks in partition walls, visible from one side only.	
2 Slight	• Small cracks in walls d ≤ ~3.0 mm	
3 Moderate- Heavy	• Diagonal cracks in walls d < ~ 5.0 mm	
4 Severe- Total	 Cracks in walls, visible from both sides d > ~ 5.0 mm Partial or total collapse and disintegration of walls 	

Exhibit 2.7: Damage severity for masonry buildings

MASONRY BUILDINGS



Photo 27: Slightly damaged (GREEN)



Photo 28: Slightly damaged (GREEN)

MASONRY BUILDINGS



Photo 29: Moderate to heavy damage (YELLOW)



Photo 30: Severe damage (RED)

MASONRY BUILDINGS



Photo 31: Partial collapse (RED)



Photo 32: Partial collapse (RED)

2.5.1c Steel buildings

Steel buildings are rather rare in seismically active Southern Europe. Field evidence from other parts of the world, however, indicates a generally good behaviour in earthquakes, with very few collapses and hence few lives lost. This is not to say that steel buildings do not suffer damage or that they are not vulnerable. It is noted here that in modern steel construction lightweight partitions are normally used and in this respect such buildings are less hazardous than concrete or order steel structures, in which brick or other heavy masonry is used for partitions.

In Table 2.3 guidelines that may be used to assess the level of damage severity are given.

Table 2.3 Typical Damage Severity for Steel Buildings

DAMAGE SEVERITY DESCRIPTION

1 = None - Slight

- 1. No signs of any distress
- 2. Hairline or small cracking in the plaster of partition walls and in the masonry veneer of exterior walls
- 3. Minor damage in the ceilings, lighting fixtures etc.
- 4. Minor damage in the cladding (partial dislodgement, some broken glass)
- 5. Some minor residual racking (less than 1.0 cm) of walls
- 6. Negligible to slight structural damage (signs of distress in some structural members and their connections)
- 7. Cracks and perhaps partial failures of chimneys

2 = Moderate - Heavy

- 1. Moderate cracking (~ 2-4 mm) in the plaster of interior walls and in the masonry veneer of exterior walls
- 2. Moderate residual racking (~ 1.0 to 2.0 cm) of walls
- 3. Moderate to heavy damage in ceilings (dislodgement of suspended ceilings, disattachment of lighting fixtures etc)
- 4. Moderate to heavy damage in the cladding (dislodgement and partial failure of panels, plenty of broken glass etc)
- 5. Moderate to heavy local damage in structural members and connections (a few buckled or broken braces, flange buckling in a few columns, slippage or cracks in some base plates, weld or other connection failure in a few joints, movement or failure at some shear connections between floor diaphragms and beams, etc.
- 6. Collapse of chimneys and parapets in combination with other damage listed herein

Table 2.3 (cont.): Typical Damage Severity for Steel Buildings

- 7. Slight dislocation of structural elements
- 8. Minor ground movement but no signs of foundation failure

3 = Severe - Total

- 1. Partial or total collapse
- 2. Widespread failure of interior partition walls, cladding and glass
- 3. Many failed structural members, joints and connections (buckling or stretching of braces, buckled column flanges, slippage or cracks in many base plates, many cracks in welded connections, cracked bolts and gusset plates etc)
- 4. Considerable dislocations of structural members, residual drift in any storey or dislocation of the whole building
- 5. Substantial ground movement, fracture of base slab, or bowing of basement perimeter walls
- 6. Any type of damage indicating considerable danger for collapse

Note: Falling hazards are cause for marking AREA UNSAFE and for barricading it.

STEEL BUILDINGS



Photo 33: Four storey steel building with extensive broken glass and several buckled braces (YELLOW)



Photo 34: Buckled brace of building in Photo 29

STEEL BUILDINGS

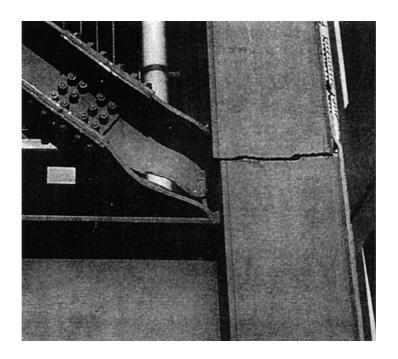


Photo 35: Complete column fracture and brace failure (YELLOW)



Photo 36: Fractured weld of the panel plate in beam-column joint (YELLOW)

STEEL BUILDINGS

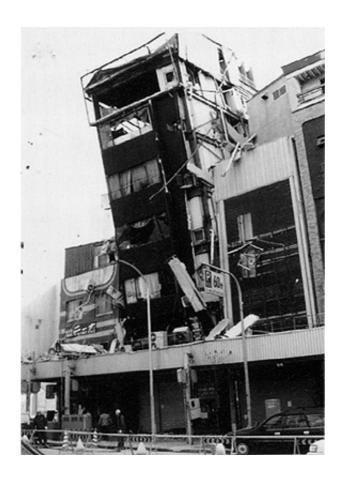


Photo 37: Failed 7-story braced steel frame building (RED)

2.5.1d Wood buildings

Wood buildings are used mostly as single family houses in the United States or Japan but not in the earthquake prone countries of Europe. For completeness, however, guidelines for such buildings have also been included in Table 2.4.

Table 2.4 Typical Damage Severity for Wood Buildings

DAMAGE SEVERITY DESCRIPTION

1 = None - Slight

- 1. No signs of any distress
- 2. Hairline to small cracking in the plaster of interior walls and in the masonry veneer of exterior walls
- 3. Some minor residual racking (less than 1.0 cm) of walls
- 4. Cracks and perhaps partial failures of chimneys

2 = Moderate - Heavy

- 1. Moderate cracking (\sim 2-4 mm) in the plaster of interior walls and in the masonry veneer of exterior walls
- 2. Moderate residual racking (~ 1.0 to 2.0 cm) of walls
- 3. Moderate to heavy local damage in a few vertical members and their joints supporting floors and the roof
- 4. Collapse of chimneys in combination with items 1, 2, 3 above
- 5. Local heavy damage in some parts of the building
- 6. Minor cracks in the foundation slab
- 7. Minor ground movement

3 = Severe - Total

- 1. Partial or total collapse
- 2. Partial or total failure of interior and / or exterior walls
- 3. Large residual racking of walls (greater than 3.0 cm)
- 4. Floors and/or roof displaced from walls
- 5. Severe damage in the vertical members and their joints supporting floors and the roof.
- 6. Separation between two parts of the building
- 7. Severe to total loss of anchorage to foundation or fractured foundations
- 8. Substantial ground movement, dislocation of the whole building or parts of it
- Any type of damage indicating considerable danger for collapse

Note: Falling hazards are cause for marking AREA UNSAFE and for barricading it.

WOOD BUILDINGS



Photo 38: Damaged 2-storey wood frame building. Lots of broken glass and some lateral offset (YELLOW)



Photo 39: Local damage to plywood shear wall (YELLOW)

WOOD BUILDINGS

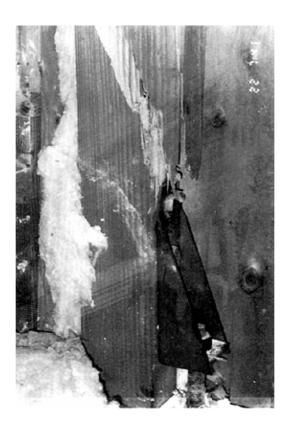


Photo 40: Fractured post above the hold-down (YELLOW)



Photo 41: Single story wood frame house slipped off its foundation (RED)

WOOD BUILDINGS



Photo 42: Collapsed 2-story wood frame apartment building (RED)



Photo 43: Large racking of 2-story wood frame building (RED)

2.5.2. Overall assessment of building safety

For the overall assessment of the building safety for use, both the severity and extent of damage of the various structural elements are taken into account. It is of paramount importance that the inspector identifies first the type of structural system (section B) from which the "criticality" of each load carrying element can be assessed. Subsequently the damage caused by the earthquake must be recorded as section C of the Form requires. It is only then that the assessment of the building's safety can be made with sufficient degree of confidence. Although it is often difficult to automate such assessment just on the basis of observed (and recorded) damage, an effort has been made here aimed at an as much as possible objective assessment, on the basis of the general safety and usability criteria outlined in Exhibit 2.1. It is based on the recorded damage severity and extent for load bearing and other elements (R.C. members, bearing walls, infill walls, chimney, parapets, roofs) and on the contribution of such elements to the building safety.

In summary then the steps for safety assessment of the building are:

- 1. The damage severity (1 to 4) and extent of the damaged structural elements is recorded (Exh. 2.5a,b,c, 2.7, Tables 2.1-2.4, Photos: Inspection form Section C).
- 2. An "overall damage assessment for the individual elements" can be decided according to the criteria given in Table 2.5*, relating the damage severity to the damage extent.
- 3. The "overall assessment for use of the building" (GREEN, YELLOW, or RED: Section D of the inspection form) takes into account the partial "overall damage assessment classifications for each structural element" according to Table 2.6.

It is once more emphasized however that the rules given below should always be viewed as an aid rather than a substitute to sound engineering judgement.

The structural elements in Tables 2.5 and 2.6 are grouped into the following categories:

A RC columns, beams, shear walls, frame joints and masonry walls

B1 Stairs, B2 Infill walls, B3 Parapets, roofs, chimneys

C Building out of plumb D Ground problems

^{*} In Rapid Assessment only Damage Severity is taken into account in Table 2.5.

TABLE 2.5: Criteria for assessment of **ELEMENT** damage.

A. Bearing Elements Columns, Beams, Shear walls, Fame Joints, Masonry Walls	Damage Severity	Extent of damage
GREEN	1, 2	1, 2
YELLOW	2	3, 4
	3	2
RED	3	3, 4
	4	2, 3, 4

B.1 Stairs	Damage Severity	Extent of damage
GREEN	1, 2	1, 2
YELLOW	2	3, 4
	3	2
RED	3	3, 4
	4	2, 3, 4

B.2 Infill masonry walls	Damage Severity	Extent of damage
GREEN	1, 2	1, 2, 3, 4
	3	2
YELLOW	3	3, 4
	4	2
RED	4	3, 4

TABLE 2.5 (cont.): Criteria for assessment of **ELEMENT** damage

B.3 Parapets, Roofs, Chimneys	Damage Severity	Extent of damage
GREEN	1, 2	1, 2
YELLOW	2	3, 4
	3	2
RED	4	2, 3, 4

C. Building out of plumb	Damage Severity
GREEN	1, 2
YELLOW	3
RED	4

D. Ground Problems	Damage Categories
GREEN	1
YELLOW or RED	2, 3, 4, 5, 6
YELLOW or	2, 3, 4, 5, 6

Note:

In the Inspection Form at "Apparent Ground Problems" only the mode of failure of the ground is indicated (neither the severity nor the extent of damage).

So the classification to Yellow or Red relies on the engineering judgment of the inspectors.

Table 2.6: Criteria for overall assessment in case of different types of damaged structural elements

	Damage Assessment of the various element categories (A to D)	Overall assessment of the building
1.	A, or B_1 , or B_2 : RED	RED
2.	A, or B ₁ , or B ₂ : YELLOW and B ₃ : GREEN	YELLOW
3.	A and B: GREEN and C or D: YELLOW or RED	YELLOW or RED
4.	A and B: YELLOW and C or D: YELLOW or RED	RED
½	A and B ₁ and B ₂ : GREEN	GREEN
	and B ₃ : YELLOW or RED (and C, D: GREEN)	For part of the building Need for intervention in
6.	A and B ₁ and B ₂ and B ₃ : GREEN	GREEN

In the cases not adequately covered by this Table, the inspectors will decide considering the damage descriptions and correlations in Tables 2.1 to 2.5 and using engineering judgment.

Notation:

- **A** bearing elements: RC columns, beams, shear walls, frame joints and masonry walls
- **B1** stairs
- **B2** infill walls
- **B3** parapets, roofs, chimneys
- **C** building out of plumb
- **D** ground problems

2.6. HAZARD REMOVAL AND EMERGENCY SUPPORT

The rapid (and the detailed) assessment of a building provides information about hazardous conditions requiring urgent intervention. The interventions may range from the need of urgent support and the removal of some local hazard e.g. a badly damaged chimney or parapet, to the demolition of whole buildings that have been damaged beyond repair or have partially collapsed. In the inspection form following the assessment the actions to be taken are indicated together with the priority of urgency for action it presents: Low, Medium, or High.

The daily program for hazard removal and emergency support will be prepared taking into account the data of the buildings inspected the previous day, and input into the system. The system will be able to group and indicate the buildings for which an intervention is urgently required. The planning/ priority of interventions will also take into account (include) any requests made by owners of damaged buildings.

The necessary work for the action taken will be carried out by specialised intervention crews and requires availability of the necessary equipment. More particularly, emergency bracing and shoring should be preferably carried out under the direction of an experienced structural engineer.

The intervention crews are supposed to be provided with the Emergency Intervention Form (see Exhibit 2.8) on which the available data from the inspection, rapid or detailed, will appear. The intervention crew will indicate on the form the interventions that were completed, and those remaining to be realized.



Photo 44: Partially collapsed wall and parapet, requiring urgent demolition



Photo 45: Hazardous, partially collapsed masonry building requiring urgent demolition



Photo 46: Emergency support due to failed column



Photo 47: Emergency support of damaged open ground story of concrete building

2.6.1 Guidelines for filling the Emergency Intervention Form

• Section F: Action Taken

The Intervention crew will indicate on the Emergency Intervention Form the tasks accomplished (see Exhibit 2.8).

- Attention should be paid to the removal of all hazards, to barricading the unsafe areas and to disconnecting damaged utility installations.
- If it is assessed that the building is dangerous and should be demolished, the urgent reinspection should be marked in the Intervention Form for possible demolition.

LOCAL AUTHORITYOFFICE	
TEL	
EMERO	GENCY INTERVENTION FORM
A. BUILDING LOCATION AND ID Street	NoPostal Code Town/Municipality
Section No:Block No:	Or Streets surrounding block: 1
Position of building in block: \Box 1=Fr	Free 2=Middle (2 opposite sides free) 3=Corner (2 or 3 sides free)
C. DAMAGE (a) SEVERITY (1 st BOX): 1 (b) EXTENT (2 nd BOX): 1	1 = None $2 = Slight$ $3 = Moderate - Heavy$ $4 = Severe - Total$ $1 = None$ $2 = 1$ to Few $3 = Few to several$ $4 = Several to many$
COLUMNS \square \square SHEAR WALLS/ EI	ELEV. SHAFT \square \square FRAME JOINTS \square \square BEAMS \square \square
	ING WALLS \square \square INFILL WALLS (masonry, ecc) \square
	PARAPETS \square \square BUILDING OUT OF PLUMB \square
Apparent ground problems: \square 1= N 5 = Ground fissures 6 = Rockfalls 7 =	None 2 = Settlement 3 = Liquefaction 4 = Slope movement = Other (explain)
Indirect damage: ☐ 1=None 2=Pou	ounding to adjacent building 3=Fire 4=Other (explain)
Inspected: Exterior \Box Ground story	\square I^{st} story \square Other stories \square
D. OVERALL ASSESSMENT FOR USE (S	See back page for explanations):
1 1	Dangerous for use (RED)
The assessment made is : for the whole bu	uilding: \Box for part of the building: \Box
F. ACTION TAKEN: □ 1 = No 4 = Combination of actions 2 and 3 5 = Ur * Explain	& 11 I
** The following elements have been demolia	ished or removed
The following utilities were disconnected:	
COMPLETION OF REQUIRED WO	PRKS: \square 1= YES 2= NO
NEED FOR UNINTERRUPTED COM	MPLETION: \Box 1= YES 2= NO
COMMENTS:	
	INTERVENTION CREW (2) INSPECTION ENGINEER
	ignature 3. Signature wee/ Title Name / Title
	Owner Building manager Other
	Name Date Date

2.7. FIELD SAFETY OF INSPECTORS

The inspectors assessing the safety of a building damaged by an earthquake must be careful not to expose themselves to hazardous conditions. Quite often, a building that has suffered serious but not always readily observable structural damage from the main shock may be in danger of collapse in the event of an aftershock. Therefore the basic safety rule that inspectors must always observe and which has been emphasized throughout this manual, is not to enter a building, unless they feel it is safe to do so. This requires a careful survey of the building exterior for a gross assessment of the building's condition. In addition to this, several other precautions as explained below should be taken.

Inspectors should work in pairs, not only for reaching more reliable assessments by exchanging views when in doubt, but also for having one team member provide assistance or call for help in case the other member is injured. When entering a damaged building, inspectors must be well equipped, wearing their hard hats and being in constant alert for aftershocks, falling hazards (parapets, glazing, appendages, ornamentation etc) or leaks of hazardous substances. In case they enter a factory, laboratory or storage area, they should be quite careful to recognize any suspected hazardous material release either from sighting damaged containers and spills or by odour, eye irritation, breathing problems etc, all of which constitute warnings for potential chemical hazard. In such cases the inspectors should exit from the suspected area, take note and inform the field office immediately. Damaged utility installations, such as electrical or gas, may also constitute serious hazards, e.g. in cases of exposed electrical wiring or when there are gas leaks. Gas can usually be detected by odour and if this situation is encountered an effort should be made to locate and shut off the main valve. Obviously the inspectors should refrain from smoking when entering such premises and it is prudent to do so also when entering any damaged building.

In summary, the main precautions that inspectors should take when carrying out their field work are:

- 1. Travel and inspect in pairs.
- 2. Wear always a hard hat while in damaged building or in its surroundings.
- 3. Survey carefully the building exterior before entering and enter only if deemed safe.
- 4. Be alert for aftershocks and prepared to take cover when one comes.

- 5. Inspect carefully for falling hazards(e.g. parapets, glazing, ornamentation etc) and do not take risks attempting to remove them.
- 6. Do not use elevators.
- 7. Be alert for damaged utility installations, avoid exposed electrical wiring or downed power lines and try to shut off the electricity and gas supplies.
- 8. Be alert for leaks of hazardous (toxic or other) substances and avoid all areas where the presence of such substances is suspected.
- 9. Play it safe whenever in doubt about something that may entail risk.

2.8 LEGAL ISSUES

When the emergency inspections operation is planned (before a catastrophic earthquake strikes), the responsible authorities should take all necessary legislative steps to extend full insurance coverage to the personnel that will be involved in the inspections for the period the operation lasts. This may be done either by conferring upon such personnel a temporary status of state or city employee for the period of the inspections and thus extend to them all the pertinent coverage or by instituting specific provisions. Under all circumstances, the inspectors should be free, by law, of any liability that may arise as a result of their posting or more generally in the course of carrying out the inspections. This is a necessary measure to ensure objective assessments and avoid systematic conservatisms out of fear of liability in the event of damages that may result from the posting decision.

Another part of the operation that requires well instituted legal procedures has to do with the emergency demolitions that will be carried out during the operation. While some damaged buildings may constitute an obvious hazard and thus require immediate removal, there will often be cases that the need for demolition could be debated. To avoid subsequent litigation it is necessary to have adequate and well thought legal procedures that will allow the demolition crews to act quickly for protecting public safety, while at the same time securing all the rights of the property owners. Thus, buildings marked for demolition as been hazardous to the public should be reinspected by an expert team and the owner's consent should be sought before any action is taken. If the owner refuses to give his consent, he should be instructed to either remove the hazard on his own or face all the consequences for subsequent damages that may result from his hazardous property.

3. OPERATIONAL PLAN

An essential element for the success of the operation is its organisational structure. Based on experience gained from earthquakes in Greece during the past 20 years, the structure shown in Exhibit 3.1 is recommended. It is appropriate for small as well as large scale operations and if it is properly prepared within the general pre disaster planning activities it can produce the desirable results. In the tree indicating the organizational structure, each rectangle represents a certain domain of responsibility, for which the manning is performed through respective lists of relevant available personnel. The criteria according to which the personnel should be selected for each assignment, will be presented in detail subsequently.

Such a plan will be part of a more general preparedness plan, designed to deal with the emergency situation created by an earthquake. Therefore, the details of its implementation will depend upon this general preparedness plan and thus could vary from one country to another. However, its main elements would not need to change, if the underlying inspection procedures remain the same.

3.1. TASKS AND RESPONSIBILITIES

The tasks and responsibilities of the different people involved in the operation are listed in the following, according to the organisational structure shown in Exhibit 3.1.

(i) Chief of operations

- 1. Directs the setting up of the operation
 - Secures personnel.
 - Assigns duties.
 - Sets up local field office.
- 2. Directs the operation
 - Specifies priorities.
 - Oversees work progress.
 - Chairs meetings with coordinators.

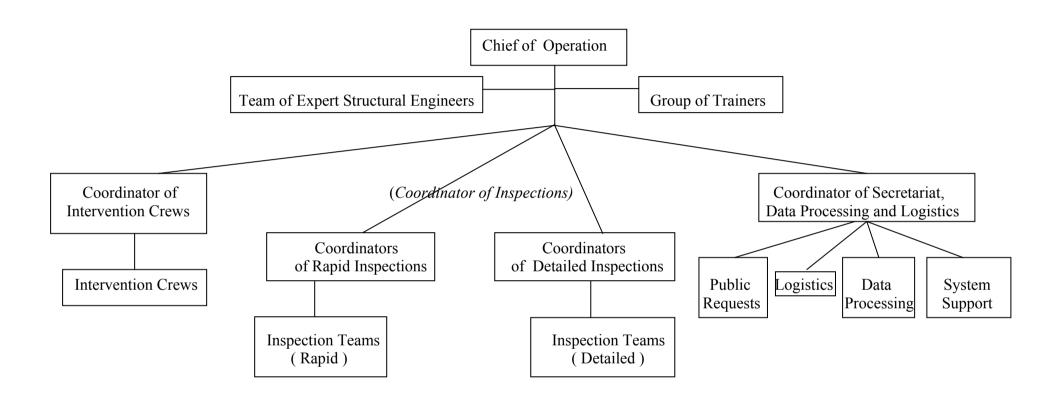


Exhibit 3.1: Organizational structure for a large scale emergency damage inspection operation.

- Approves / changes daily work programme.
- Decides on tasks for the team of experts.
- Resolves conflicts.
- Communicates with other emergency officials and with authorities.
- Replaces personnel due to poor performance, lack or co-operation etc.
- Gives pertinent information to the appropriate authorities
- 3. Submits a final report to the appropriate authorities.

(ii) Team of Expert Structural Engineers

- 1. They inspect buildings of special interest (public, industrial sites, etc)
- 2. They may give their opinion concerning the appropriate support required for buildings of particular interest.
- 3. They contribute in the formation of the general overview of the situation.
- 4. They co-operate with the Chief of Operation to set priorities.
- 5. They offer their assistance to the Coordinators of Inspections, or to the Coordinator of Intervention Crews if needed.

(iii) Group of Trainers

They train before hand, i.e. before the operation is executed, the engineers who might be involved in it (e.g. on how are such operations organized, on assessment of damage, on emergency interventions, on procedural matters).

(iv) Coordinator of Inspections (Rapid or Detailed)

- 1. Coordinates and supervises the work of 10 to 15 inspection teams.
- 2. Names the leader of each team.
- 3. Assigns the areas of responsibility for each team.
- 4. Secures the availability of materials for the inspection teams.
- 5. Receives the damage inspection forms and ranks the degree of urgency of the required actions.
- 6. Makes spot checks of inspected buildings.
- 7. Gives copies of the damage inspection forms for data processing.

- 8. Participates in the end-of-the-day meeting with the chief of operations and the coordinator of the support and demolition crews to prepare the intervention list for next day, review progress, solve problems etc.
- 9. Resolves conflicts between his teams.
- 10. Seeks the assistance of the team of experts teams if the need arises.

(v) Coordinator of emergency support and demolition crews

- 1. Coordinates, directs and supervises the work of the emergency support and demolition crews.
- 2. Names the leader of each crew.
- 3. Assigns the work to the crews.
- 4. Secures the availability of tools, equipment and material for his crews.
- 5. Participates in the end-of-the-day meeting with the chief of operations and the inspection team coordinators to prepare the intervention list for next day, review progress, solve problems etc.
- 6. Provides technical advice and checks the work of his crews in the field.
- 7. In consultation with the chief of operations seeks additional technical assistance if his crews are not sufficient.
- 8. Seeks the technical advice of the team of experts in difficult situations.
- 9. Resolves conflicts between the crews.
- 10. Receives the Emergency Intervention Forms and checks the interventions that have been completed.
- 11. Gives the daily list for intervention as well as progress information to the data processing unit.

(vi) Damage inspectors

- 1. Inspect the buildings, fill the damage inspection forms, barricade unsafe areas, mark them and post the buildings with the appropriate placard.
- 2. Explain to the building occupants the safety reasons for the inspection and the meaning of the posting. Make clear that this inspection has nothing to do with the detailed engineering evaluation and design that will be required to receive any governmental assistance for possible repairs.

3. The members of the team sign the posting placard and the damage inspection form. In case of disagreement between the members of the team, the opinion of the leader of the team prevails.

(vii) Coordinator of Secretariat, Data Processing and Logistics

- 1. Groups the requests from the public and handles them to the appropriate sectors, i.e. coordinator of intervention crews, coordinator of inspections, or team of experts.
- 2. Process copies of the Damage Inspection Forms and the Emergency Inspection Forms of the day to the Data Processing, and makes sure the data is input into the system each evening.
- 3. Collects the inspection forms that are input into the system to give them to the coordinators of inspections, and the summary reports of the buildings inspected needing urgent interventions to the coordinator of intervention crews.
- 4. Is responsible for the distribution of the material to the inspection teams. Checks if some stock needs replacement.
- 5. Is responsible for the smooth function of the Data processing. If any problem arises, makes sure it is resolved by the system support as soon as possible.

(viii) Data processing

- 1. Process the data on the Damage Inspection Forms.
- 2. Produce lists with requirements for further action.
- 3. Process the data of the Emergency Intervention Forms.
- 4. Produce summary reports.

(ix) Secretariat and Logistics

- 1. Provide clerical and secretarial support to the operation.
- 2. Maintain stock and supply the materials required for the operation (see list), except for the materials needed for emergency support and demolition.

(x) Public requests

1. Handles requests by the public (e.g. provides inspection scheduling information, receives and processes information about emergency conditions, explains safety classification, gives information about government assistance for repairs etc.).

2. Assists the secretariat and logistics unit.

(xi) System Support

- 1. Assists those involved with Data Processing in using PEADAB.
- 2. Solves hardware problem that may occur to the system (PCs, Printers, network, etc).

3.2. OPERATION SET-UP CHECKLIST

The following is a checklist of the necessary actions to set up the emergency earthquake safety inspection operation.

- 1. Mobilisation. Chief of operations, designated in the general emergency mobilisation plan, receives order.
- 2. Chief of operations:
 - Assigns duties to support personnel (secretarial, data processing etc.).
 - Names inspection team coordinators, coordinator of emergency support and demolition works and a deputy chief.
- 3. Set up of local field office:
 - Secure housing or temporary shelter for the operation.
 - Secure telephones, office furniture and supplies.
 - Secure 1 copying machine, PC's and printers (PC's should be connected in a network).
- 4. Form inspection teams.
- 5. Form emergency support and demolition crews.
- 6. Briefing of all personnel about the operation, tasks etc.
- 7. Secure the availability of tools, equipment and emergency support materials.
- 8. Bring in and distribute material required by the inspection teams.
- 9. Divide the stricken area into sections and number blocks and buildings (if this has not been provided for in the general preparedness plan).
- 10. Start rapid assessments and try to complete them as soon as possible
- 11. Begin detailed inspections starting with critical facility buildings.

- 12. As inspection data starts coming in, mobilise emergency support and demolition crews.
- 13. Utilise the team of experts for important structures, difficult assessments etc.
- 14. Consider the demands and requests of the public.
- 15. Repeat inspections after major aftershocks.

3.3. HUMAN RESOURCES

The operation will be carried out mostly by people working for the city and local or state government. Volunteer structural engineers from the private sector may also be used as inspectors, if the available pool of structural engineers working for the public sector does not suffice. This will normally be the case if the earthquake strikes a major city. Under such circumstances, cooperation with engineering professional associations will help alleviate the problem.

(i) Chief of Operations

The person who will assume the post of operations chief should be a structural engineer official with the Building Department having jurisdiction over the affected area. Alternatively, and depending upon the administrative structure of each county, the chief of the operation could be a senior structural or civil engineering official of the city, the prefecture etc. He should have a good leadership record, should be familiar with the problem and also quite knowledgeable of the emergency mobilisation plan and the bureaucratic machinery that will support the operation. The above should be considered by the emergency agency planners that prepare the general mobilisation plan, in which the official who becomes chief of operations will be designated.

(ii) Team of experts

They should be senior structural engineers from the public or private sector, well recognised for their earthquake engineering and damage assessment expertise.

(iii) Group of Trainers

They should be structural engineers with knowledge of and previous participation in such operations, experience in earthquake damage assessment and, if possible, with previous experience in educational seminars. In Greece, it is expected that such training will be carried out by engineers of EPPO (Earthquake Planning and Protection Organization) as well as by specially trained engineers working in the Prefectures.

(iv) Coordinators for emergency inspections and intervention

The coordinators of the inspection teams and the coordinator of emergency support or demolition works should be experienced structural engineering officials of the city or the governmental agencies involved in this operation. They should also be familiar with the mobilisation plan and the bureaucracy of the agencies supporting the operation.

(v) Damage inspectors

Damage inspectors constitute the back bone of the operation. They should be in teams of two inspectors (rapid assessment) or three inspectors (detailed inspection), one of whom will be the leader of the team. They may be structural engineers or architects, employees of the city or local government in the affected area, neighbouring jurisdictions or from other areas in the country having pertinent experience from past earthquakes. If their numbers are insufficient, local volunteer professionals could also be commissioned and utilised, with the assistance of the appropriate professional associations.

The person chosen as leader should be working for the public sector, with previous experience in the assessment of earthquake damages and, in case of detailed assessments, should preferably be a structural engineer.

(vi) Emergency support and demolition crews

They should be structural works technicians, equipment operators and structural workers. They should come from the agencies involved in this operation (e.g. building departments, city technical services, public works department etc.) or, if not sufficient in number, from the private sector.

(vii) Data processing, secretarial and logistics personnel

The support personnel comes from the departments or agencies to which the chief of operations or the coordinators belong or from any other department, as foreseen in the emergency mobilisation plan.

(viii) System support personnel

The system support personnel has to be highly experienced and be able to efficiently cope with problems arising from software and hardware applications of a network station. Those responsible with software, have to be thoroughly familiar to the functions of PEADAB.

3.4. MATERIAL AND EQUIPMENT

Advance planning of the post-event inspections operation is a key element for its success. Such planning should include the advance preparation and stocking of essential items, e.g. city maps, damage inspection forms etc. In addition, the availability of demolition equipment should be secured as well as its operators. The following is a list of materials that should be readily available for running the operation smoothly.

(i) Equipment for the local field office

- 1. Desks and chairs.
- 2. Telephone equipment.
- 3. Photo copying machine.
- 4. Personal Computers for running the operation support program.
- 5. Printers
- 6. Topographic maps of the community on a scale 1:10000 or 1:5000.
- 7. Topographic maps of the community on a scale 1:1000, showing street names, block numbers and, if possible, building ID numbers.
- 8. Adequate stock of posting placards, damage inspection forms and field manuals.
- 9. Barricading tape (red-white stripes).
- 10. Notebooks, pens, pencils, etc.

(ii) Equipment of the inspection teams

Essential items

- 1. Topographic maps (1:1000) with block & building numbers,
- 2. Posting Placards and Inspection Forms,
- 3. Pen and a notebook,
- 4. Field Manual,
- 5. Measuring tape/meter,
- 6. Carpenters axe or hammer,
- 7. Sprays with Green, Yellow and Red paint,
- 8. Barricading tape (red and white stripes),
- 9. Hard hat,
- 10. Official identification.
- 11. Camera and several roles of film.

Other suggested items

- 1. Flashlight and extra batteries.
- 2. Binoculars.

Tools and equipment for the hazard removal and demolition crews should be provided by the city or local government technical services or other pertinent departments. If the available equipment (bulldozers, cranes etc.) from the public sector is not sufficient, it could be supplemented from the private sector. For operational efficiency, this should be provided for in the general mobilisation plan in which updated lists of the required equipment, its owners and operators should be included.

4. THE NEW PEADAB SYSTEM

Based on earlier work (2,4,7,8,9) the new PEADAB system has been rewritten and is intended to be an easy to use practical tool for supporting operations of post earthquake, emergency assessments of building safety in earthquake affected areas. It can help establish standard procedures, necessary for the success of such operations which are often executed under chaotic conditions and tend to be poorly organized, without the benefit of the experience gained in previous earthquakes, as this experience is typically lost. PEADAB is designed to document such operations and to support the planning, set up and execution of new ones, which can draw from the experience of the past, available through PEADAB.

The PEADAB system may be used in three modes:

- 1. **To support the Planning of the** post-earthquake emergency inspections operation beforehand, by storing the available resources (human as well as equipment and material), which will be needed to set up the operation after a catastrophic earthquake strikes. (Changes within the planning may be performed also during the execution of the operation).
- 2. **To support the execution of the operation** in the Execute Operation mode by processing the data in the Inspection and Intervention forms, checking the consistency of the recorded damage with the given posting (color) classification and by providing reports on various aspects of the operation as it progresses.
- 3. To provide information in the Extract Information mode concerning the progress of the operation, including daily lists of the buildings requiring emergency intervention. These lists are based on the daily processed inspection forms and are ordered according to the urgency marked for each case on the form by the inspectors. It can also map the inspected buildings according to their posting classification, as the operation progresses and more generally, it can give lists of buildings with user specified attributes, essentially with any attribute listed in the Inspection form and for any of the possible values the attribute can take. For example it can list all buildings, having the attributes such as: RC type, built before 1984, number of floors > 5, location in block "corner", posting classification: yellow. In addition to lists it

can give the same information in the form of histograms or depict it graphically on a map, thus allowing the authorities to monitor the development of the operation. Moreover it can print any of the data stored in the system, such as personnel data, available equipment and material, Inspection and Intervention forms, Posting placards etc.

A brief presentation of the functions of PEADAB in a tree form is given below.

1. PLAN OPERATION

1.1. <u>Define agencies</u> → Name, Address, telephone

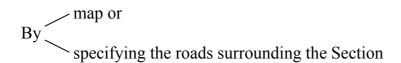
1.2. Define available resources from each Agency

- → Vehicles, Equipment (Car, Bulldozer, etc)
- → Materials (for Inspection teams, Intervention crews, office equipment, etc)

1.3. Select Personnel, Equipment, Materials, etc for the Operation

- 1.3.1. Personnel → Select position (from Organizational Tree)
 - → Select persons (from list of Agencies) for the positions, to form Inspection teams, etc.
- 1.3.2. Vehicles, Equipment \rightarrow Select item (from list of Agencies)
 - → Select team to charge with the equipment
- 1.3.3. Materials \rightarrow Select item (from list of Agencies)
 - → Select team to charge with the materials

1.4. Define Sections in the Area & assign Sections to Coordinators

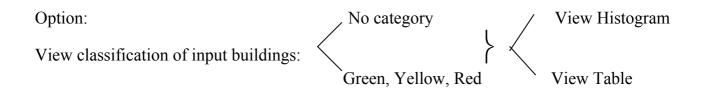


2. REVIEW/ UPDATE OPERATION

- → Personnel (by selecting a person in the organizational tree)
- → Vehicles, Equipment
- → Materials

3. EXECUTE OPERATION

- → Input Building Inspection teams Data by selecting the building on the Map or giving the address of the building
- → Input Intervention crews Data



4. VIEW – EXTRACT INFORMATION

- 4.1 Lists of manpower and equipment

 Available
 by Agency
 by Category
- **4.2 Lists of buildings inspected** (by inspection team, by section, by assessment for use, etc)
- **4.3 Lists of buildings requiring** (by category of intervention, by degree of urgency) **emergency intervention**
- 4.4 Extract Information Report or Histogram

4.1 BUILT IN RULES FOR POSTING BASED ON THE DAMAGE ASSESSMENT

In an effort to set the basis for an expert system that will assist inspectors post the damaged buildings with uniform criteria, a number of rules have been developed, with which the system will check the posting classification of the building for possible inconsistencies with the recorded damage. If the posting given by the inspectors does not agree with the rules, PEADAB will print a warning message and the inspectors will need to review their posting. These rules have been developed only for Reinforced Concrete and Masonry Buildings from which practically all of the Greek experience comes, and are summarized in Table 2.6, with details given in Chapter 2.5.2. It is noted that for Rapid Assessment the system takes into account only the damage severity recorded in the Inspection form (vertical square) while for Detailed Assessment the system takes into account both the damage severity and the damage extent, also recorded in the Inspection form (vertical and tilted squares).

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APPENDIX: FIELD TESTING IN CHANIA

BRIEF DESCRIPTION INSPECTION FORMS-PHOTOS OF BUILDINGS INSPECTED

APPENDIX

TABLE OF CONTENTS

- 1. Brief Description
- 2. Map of the sections inspected in Chania List of Photos
- 3. Inspection Forms Photos of Buildings Inspected

PILOT TESTING OF PEADAB IN A GREEK CITY: BRIEF DESCRIPTION

As part of the development of the new PEADAB system, intended for adoption into the Greek State procedures for emergency response to earthquakes, a pilot application was carried out under realistic field conditions. To this effect, the Greek city of Chania was selected not only because it is in a seismically active region (on the island of Crete in the Southern Aegean sea) threatened by major earthquakes, but also because a digitized map of the city was made available to the project. This map had been produced in a framework of a scenario type study that had been carried out for Chania under an earlier EC project, partly funded by DG-Research.

After some preliminary discussions with local authorities, a project group of five persons including two people from the Greek State agency for Earthquake Planning and Protection (EPPO) went to Chania and worked there for four days. Before the trip, the Chania prefecture sent to the project team, lists of personnel that could be mobilized and equipment that could be used in case of an earthquake emergency. Such lists are necessary for the planning phase of an emergency inspection operation.

The project team met in Chania with officials from the prefecture, from the mayor's office and from the local office of the Technical Chamber of Greece, representing all engineers in the Chania prefecture.

Field office was established in the building of the Technical Chamber and the work was carried out smoothly.

PEADAB was used for the planning phase of the operation, execution and for data retrieval. Very briefly, the following was done:

A. PLANNING PHASE

For the planning phase, the various agencies that would be called to supply personnel, equipment and material for the operation were identified and input into the system. These are mainly agencies from the Chania Prefecture, the Chania municipality and the private sector which, for logistic purposes, was considered as another independent agency.

Although the vice-mayor attended the planning meeting and promised to send the requested data from the municipality, nothing came and so the team worked with prefecture and private sector data.

From the personnel and material lists that had already been entered into the PEADAB system, the operation was manned by filling the various slots of the Organizational chart (Exhibit 3.1). Taking into account the following: (a) The overall earthquake emergency plan of Greece, which specifies the operational and technical line of command for handling the emergency and (b) The main personnel category that might be in short supply is the structural engineers who will form the inspection teams. In setting up these groups, the structural engineers working for public agencies and made available for the inspection-operation were first used and then additional inspection teams were formed utilizing engineers from the private sector. A list of such engineers was made available by the Technical Chamber of Chania, which also suggested the team of expert structural engineers required in accordance with the organizational chart.

Subsequently, the map of the city of Chania was used to allocate the work of the inspection teams in sections of the city. The city was already divided by the civil protection group at the prefecture in 12 geographical sections. These sections were input into the PEADAB system and the inspection teams with their respective coordinators were assigned the section (or sections) for which they would be responsible.

Finally, a number of streets in four different sections were selected, where teams would be dispatched to inspect "damaged" buildings, fill the appropriate forms and return the forms to the field office for processing by the PEADAB system.

B. EXECUTION PHASE

For the execution phase, an inspection team composed of three people (all structural engineers) form the project team, "inspected" a number of houses in four different sections and filled the appropriate forms by assuming various levels of damage for the various houses. With the exception of the damage recording (because the buildings were not actually damaged), all the other recorded information (e.g. location, number of floors, usage, type of structural system, etc) reflected actual conditions. In total, 24 buildings were

inspected and the inspection forms with corresponding photos of the buildings are given in the Appendix. For those buildings, forms for rapid as well as detailed inspections were filled and subsequently input to the PEADAB system.

C. DATA RETRIEVAL PHASE

After the data were input, the system was asked to print various sets of information (e.g. lists of personnel utilized in the operation, lists of buildings posted green, yellow, red from the rapid and the detailed inspections, lists of buildings requiring emergency intervention, buildings with specific lists of characteristics posted in one of the three categories, the colored geographic distribution of such buildings, etc).

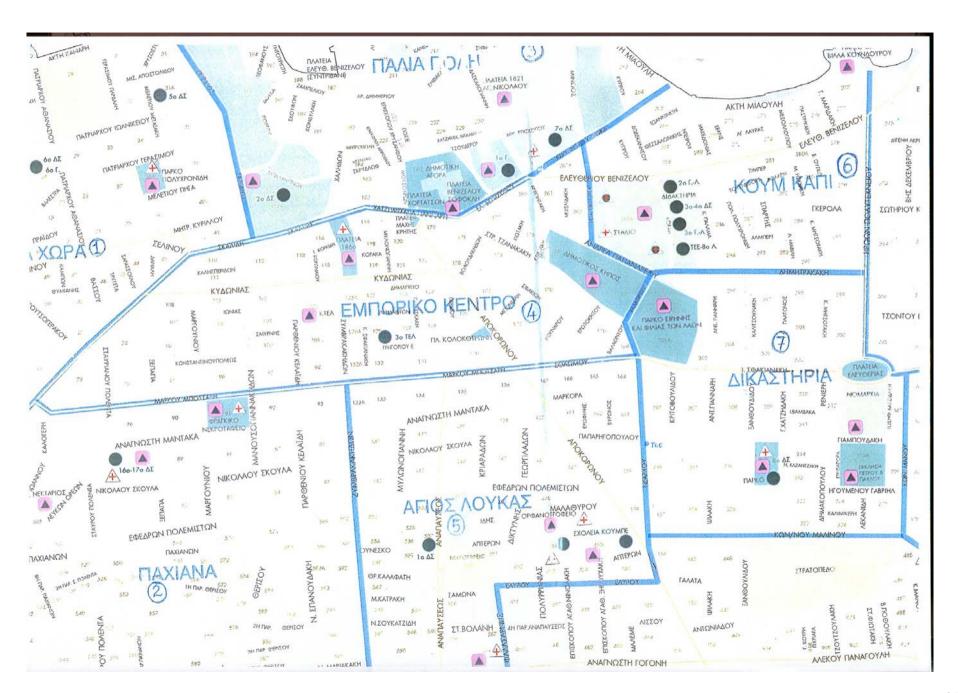
In addition, corresponding histograms were generated.

Some of this output has been included also in the documentation report of CTI. It is worth to note that during the field application in Chania, the necessity for certain minor additions or modifications to the inspection forms became apparent, and such additions/ changes were implemented. Moreover, the PEADAB system was tested and the need for certain changes therein was noted.

In conclusion, the pilot testing proved quite useful, as it demonstrated that the system is operational under field conditions and also because it helped identify certain omissions and disfunctionalities which were corrected.

LIST OF PHOTOS OF THE BUILDINGS INSPECTED

Section No.4:	Em	iporiko Kentro (Commercial Cer	ıtre)	
	-	Kornarou 14, str	Photo	1
	-	Kornarou 16, str	Photo	2
	-	Kornarou 18, str	Photo	3
	-	Kornarou 22, str.	"	3
	-	Kornarou 30, str.	Photo	4
	-	Solomou 22, str	Photo	5
Section No.5:	Agi	os Loukas		
	-	Kriaradon 6, str.	Photo	6
	-	Kriaradon 8, str.	Photo	7
	-	Mandaka 10, str	Photo	8
	-	Nearchou 38, str.	Photo	9
	-	Skoula 17, str.	Photo	10
	-	Skoula 19, str.	Photo	11
	-	Skoula 21, str.	Photo	12
	-	Solomou 19, str.	Photo	13
	-	Solomou 25, str.	Photo	14
	-	Solomou 27, str.	Photo	15
	-	Solomou 29, str.	Photo	16
Section No.7:	Dik	xastiriria (Courts)		
	-	Giamboudaki 3, str.	. Photo	17
	-	Giamboudaki 5, str.	. Photo	18
	-	Giamboudaki 9, str	. Photo	19
	-	Giamboudaki 10, str.	. Photo	20
	-	Giamboudaki 11, str	. Photo	21
	-	Nearchou 23, str.	Photo	22
	_	Nearchou 29 str	Photo	23



Rection No	Town/Municipality CHANIA KORNAROU 3=Corner (2 or 3 sides free) 1) 2BO Year of construction 40500 COUND STORY 100 STORIES 100 1=In height 2=In layout 3=Both -Heavy 4 = Severe -Total several 4 = Several to many IOINTS 100 BEAMS 100 WALLS (masonry, ecc) 100 ING OUT OF PLUMB 100 Liquefaction 4=Slope movement
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Type of structural system: (see back page) \$\frac{1}{2}^*\$ Usage: (see back page) GRO Soft or weak story (e.g. pilotis, etc) YES \(\) NO \(\) Irregularity \(\) 0=None Number of basements \(\) Multi-level foundation YES \(\) NO \(\) DAMAGE (a) SEVERITY: \(1 = \text{None} \) 2 = Slight \(3 = \text{Moderate} \) (b) EXTENT: \(1 = \text{None} \) 2 = Few \(3 = \text{Few to s} \) COLUMNS \(\) SHEAR WALLS/ELEV. SHAFT \(\) \(\) FRAME INSTAIRS \(\) BEARING WALLS \(\) ELEV. SHAFT \(\) INFILL WAPPARENT GROOF \(\) CHIMNEYS, PARAPETS \(\) BUILDI Apparent ground problems: \(\) 1=None \(2 = \text{Settlement} \) 3=I 5=Ground fissures \(6 = \text{Rockfalls} \) 7=Other (explain) \(\) Indirect damage: \(\) 1=None \(2 = \text{Pounding to adjacent building} \(3 = \text{Fire} \) Inspected: Exterior \(\) Ground story \(\) \(\) 1\(^{\pi} \) story \(\) Other st	DUND STORY DO STORIES DO 1 = In height 2 = In layout 3 = Both - Heavy 4 = Severe - Total several 4 = Several to many OINTS DO BEAMS DO WALLS (masonry, ecc) ING OUT OF PLUMB Liquefaction 4=Slope movement
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(b) EXTENT: $l = None$ $2 = Few$ $3 = Few$ to s COLUMNS	Several 4 = Several to many OINTS
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5=Ground fissures 6=Rockfalls 7=Other (explain)	4=Other (explain)
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Inspected: Exterior ☐ Ground story ☐ I st story ☐ Other st	50 F V0
	tories [
OVERALL ACCECOMENT FOR HOLE (C. L. J	
OVER ATT ACCECCMENT BOD HOW CO. L	
D. OVERALL ASSESSMENT FOR USE (See back page for explanations):	
Safe for use Unsafe for use	Dangerous for use
(GREEN) (YELLOW)	(RED)
The assessment made is: for the whole building: of for part of the building	g: ⊔
HUMAN LOSSES (if known): Number of deaths □□□	Number of injuries
ACTION TAKEN: 4 = None 2 = Remove local hazards**4 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible	
Urgency: \bigcirc 1 = Low 2 = Medium 3 = High	
** The following elements should be demolished or removed	
Access to the following areas is prohibited and must be blocked	
The following utilities must be disconnected: electricity \square water \square	gas 🗆
comments: * Ground floor: masonry (year a	of construction: 1950)
SPECTION TEAM DATA	

Data for filling the form

USAGE

11 = Parking	5	
A1= Social male	fare (retirement home, daycare cen	ter etc)
	nent) except critical services	
	게 보면 10 kg 및	53 = Communications
		55 = Water distribution-management
그리고 하는 그리지만 아버릇하게 되다		63 = Sports
		ic)
81 – Shian pic	oduction times	
<u>TY</u>	PE OF STRUCTURAL SY	STEM
11 = Wooden fl	oors and roof, no belts	
		S
		ts
	Anna and an	
		ck,etc)
23 = Frame type	e with lightweight partitions	
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	[2] [1] [1] [1] [1] [1] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	
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31 = Frame type	е	The Part of the Control of the Contr
32 = With pane	ls	
51 = Composite	(Concrete and steel)	
52 = Masonry a	nd concrete	gt.
POSTING (Cor	relation with damage in Tables	of the Field Manual)
ne building is gen	erally safe and may be used subjec	t to any posted restrictions.
o building bos	ffored damage as indicated and	urt not be used before a detailed (2nd) increasion
performed, Entry	y permitted at own risk and only fo	or a limited period of time. Aftershocks may
rohibited. Safety		cen immediately. Detailed inspection will follo
	51 = Police 54 = Energy pr 61 = Schools 64 = Culture / F 71 = Restaurant 81 = Small pro TY 11 = Wooden fl 12 = Wooden fl 13 = Concrete f 14 = Concrete f 15 = Concrete f 16 = Concrete f 21 = Frame typ 22 = Frames an 23 = Frame typ 24 = Frames an 25 = Frames wi 26 = Frames an 31 = Frame typ 32 = With pane 51 = Composite 52 = Masonry a POSTING (Correct building is gen building has surperformed. Entreause injury or eanger of partial of	51 = Police 52 = Fire station 54 = Energy production or distribution 61 = Schools 62 = Historical and religion 64 = Culture / Entertainment (museum, theatre, et 71 = Restaurant, Café, Bar, etc 81 = Small production units TYPE OF STRUCTURAL SY 11 = Wooden floors and roof, no belts 12 = Wooden floors and roof, with horizontal belt 13 = Concrete floors and roof, with additional belt 15 = Concrete floors, no belts 16 = Concrete floors, with additional belts 21 = Frame type with infill walls (brick, etc) 22 = Frames and shear walls with infill walls (brick) 33 = Frame type with lightweight partitions 24 = Frames and shear walls with lightweight part 25 = Frames with infill walls and lightweight part 26 = Frames and shear walls with infill walls and 31 = Frame type 32 = With panels 51 = Composite (Concrete and steel) 52 = Masonry and concrete POSTING (Correlation with damage in Tables the building has suffered damage as indicated and may performed. Entry permitted at own risk and only for cause injury or even death. Safety measures stated in anger of partial or total collapse of the building and cause injury or even death. Safety measures stated in anger of partial or total collapse of the building and cause injury or even death. Safety measures stated in anger of partial or total collapse of the building and cause injury or even death. Safety measures stated in anger of partial or total collapse of the building and cause injury or even death. Safety measures stated in anger of partial or total collapse of the building and cause injury or even death. Safety measures stated in anger of partial or total collapse of the building and cause injury or even death. Safety measures stated in anger of partial or total collapse of the building and cause injury or even death. Safety measures stated in anger of partial or total collapse of the building and cause injury or even death.

	INSPECTION FORM:	RAPID ASSESSMENT (1st) □	DETAILED ASSESSMENT* (2nd)
	*The information in i	talics need not be filled in d	uring the rapid (1st) assessment
DYIT	LDING LOCATION AND ID		0 1 1 /
Stree	t KORNAROU	No. 44 Postal Code	e 73135. Town/Municipality CHANIA
Secti	on No:	172Or Streets surrounding bloc	k: 1 KORNAROU
	NGC 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		FAKION 5
Posit	ion of building in block:	1=Free 2=Middle (2 opposite s	ides free) 3=Corner (2 or 3 sides free)
	CRIPTION OF THE BUILD	4	
Nun	nber of stories 🗆 Number	of apartments 🗆 Area of story (m2	2, approx.) 250 Year of construction 4950
Typ	e of structural system: (see bac	ck page) 52 Usage: (see back page	e) GROUND STORY 🗆 STORIES 🗆
Soft	or weak story (e.g. pilotis, etc)	YES NO X Irregularity	0=None I= In height 2= In layout 3= Both
Nun	aber of basements Multi-	i-level foundation YES \(\square\) NO \(
. DA	MAGE (a) SEVERITY: (b) EXTENT:	1 = None 2 = Slight 3 = N I = None 2 = Few 3 = N	
COL	UMNS 11 SHEAR W	ALLS/ELEV. SHAFT DD F	RAME JOINTS 22 BEAMS 00
STAI	And		INFILL WALLS (masonry, ecc)
ROO			BUILDING OUT OF PLUMB
LEGETATION.			
	arent ground problems: 1 round fissures 6=Rockfalls		3=Liquefaction 4=Slope movement
Indi	rect damage: 2 1=None	e 2=Pounding to adjacent building	3=Fire 4=Other (explain)
	Andrew Andrews Telephone Designation	and story X Ist story X	
insp	ecteu: Exterior & Grou	ind story A 1 story A	Other stories A
D. O	VERALL ASSESSMENT FO	OR USE (See back page for explanation	s):
S	afe for use	Unsafe for use	Dangerous for use
(GREEN)	(YELLOW)	(RED)
The	assessment made is: for the	e whole building: for part of the	e building:
. HU	MAN LOSSES (if known):	Number of deaths	Number of injuries □□□
	-		
	TION TAKEN: (I) Combination of actions 2 and 3	1 = None 2 = Remove local I 5 = Urgent re-inspection due	
Urg	gency: 1 = Low	2 = Medium 3 = High	yan
	he following elements should be	e demolished or removed	
** T	ess to the following areas is prob	hibited and must be blocked	
		onnected: electricity we	ater 🗆 gas 🗆
Acce	following utilities must be disco	mitotod: Oxfordition =	
The I	umpurs. The posti	no is applicable to	the around floor, where
The I	umpurs. The posti	no is applicable to	the around floor, where
The I	umpurs. The posti	no is applicable to	. The subsequent addition
CONt.	MMENTS: The postion here are bearing) A-C has perf	no is applicable to	. The subsequent addition
CONt.V	MMENTS: The posting of the posting of the period of the pe	ng is applicable to ng masonry walls formed satisfactoril	The sybsequent addition
COM LLAN	MMENTS: The posting of the posting of the period of the pe	ng is applicable to ng masonry walls formed satisfactorily 2. Signature	3. Signature
CON	MMENTS: The posting of the posting of the period of the pe	ng is applicable to ng masonry walls formed satisfactorily 2. Signature Name/Title	3. Signature Name /Title



Photo 1: Building at Kornarou 14 str.

INSPECTION FO	RM: RAPID ASSI	ESSMENT (1st)	DETAILED ASSESSN	ŒNT* (2 nd) □
*The informe	tion in italics need n			
70		ioi ve jiiieu in uu	ring ine rapia (1)	ussessment
Section No: .4B	AROU 1 lock No: 17.2 Or St U3 BONIALI	reets surrounding block:	IKORNAR9 FAKION5	<u> </u>
Position of building in bl	ock: D 1=Free 2	=Middle (2 opposite sid	es free) 3=Corner (2	or 3 sides free)
DESCRIPTION OF TH	IE BUILDING			
	Number of apartments			
Type of structural syste	em: (see back page) 32.*	Usage: (see back page)	GROUND STORY TO	STORIES 400
	oilotis, etc) YES \(\text{NO} \) \(\text{NO} \)	The second secon	=None 1= In height 2= In	n layout 3= Both
DAMAGE (a) SEVER (b) EXTE	RITY: $1 = \text{None}$ NT: I = None		4	evere -Total Several to many
COLUMNS 20	SHEAR WALLS/ ELEV. SI	HAFT □□ FR	AME JOINTS	BEAMS 🗆
STAIRS 🗆	BEARING W	VALLS AD IN	FILL WALLS (masonry,	ecc)
ROOF \square	CHIMNEYS, PAR.	APETS 🗆 E	BUILDING OUT OF PLUM	ß □
Apparent ground probl 5=Ground fissures 6=1		2=Settlement ain)	3=Liquefaction	THE PERSON SERVICES THE PROPERTY OF THE PERSON NAMED
Indirect damage:	1=None 2=Pounding			
PARTITION OF THE PARTIT	Ground story			
D. OVERALL ASSESS	MENT FOR USE (See back	c page for explanations)	:	
Safe for use (GREEN)	Unsafe fo	or use	Dangerous fo (RED)	
The assessment made is	: for the whole building:	☐ for part of the t	ouilding: 💢	
HUMAN LOSSES (if	known): Nur	mber of deaths \qu	Number o	finjuries 🗆 🕮
	Carlo			and the second second second second
ACTION TAKEN: 4 = Combination of action		2 = Remove local ha ent re-inspection due to		ipport required
4 = Combination of action				pport required
4 = Combination of action Urgency: B :: ** The following element	ons 2 and 3 $5 = Urg$	ent re-inspection due to 3 = High removed	possible collapse	
4 = Combination of action Urgency: B :: ** The following element	ons 2 and 3 $5 = \text{Urg}$ 1 = Low $2 = Mediumats should be demolished or rureas is prohibited and must be$	sent re-inspection due to 3 = High removed be blocked	possible collapse	
4 = Combination of action Urgency: B ** The following element Access to the following at The following utilities m	ons 2 and 3 5 = Urg 1 = Low 2 = Medium atts should be demolished or r areas is prohibited and must be ust be disconnected: elec	ent re-inspection due to 3 = High removed be blocked cetricity water	possible collapse	•
4 = Combination of action Urgency: B ** The following element Access to the following at The following utilities m	ons 2 and 3 $5 = \text{Urg}$ 1 = Low $2 = Mediumats should be demolished or rureas is prohibited and must be$	ent re-inspection due to 3 = High removed be blocked cetricity water	possible collapse	•
4 = Combination of action Urgency: B ** The following element Access to the following at The following utilities m COMMENTS: * Cy -Urgent suppor	ons 2 and 3 5 = Urg I = Low 2 = Medium atts should be demolished or r areas is prohibited and must be ust be disconnected: ele cond floor of the floor of the floor of	ent re-inspection due to 3 = High removed be blocked cetricity water	possible collapse	•
4 = Combination of action Urgency: B ** The following element Access to the following at The following utilities of the following at The following utilities of the following utilitie	ons 2 and 3 5 = Urg I = Low 2 = Medium atts should be demolished or r areas is prohibited and must be ust be disconnected: ele cond floor of the floor of the floor of	ent re-inspection due to 3 = High removed be blocked cetricity wate mason va Rein forced part of the b	possible collapse er gas severe nace be: few can cuilding , is req	lamaces octs in 4, 2-Ca
** The following elemen Access to the following a The following utilities m COMMENTS: * -Urgent Support ISPECTION TEAM DAT Signature	ons 2 and 3 5 = Urg I = Low 2 = Medium atts should be demolished or r areas is prohibited and must be ust be disconnected: ele attached floor of the floor of the left	ent re-inspection due to 3 = High removed be blocked cetricity wate mason wate Rein forced Co	possible collapse er gas severe severe signature	lamaces icks 1194, B-Co

	RAPID ASSESSMENT (1st) □	DETAILED ASSESSMENT* (2nd)
*The information in	italics need not be filled in di	uring the rapid (1st) assessment
BUILDING LOCATION AND I Street KORNARON Section No: A Block No:	No. 16Postal Code	T3135 Town/Municipality CHAN1A 1 KORNAROU
Position of building in block:	1=Free 2=Middle (2 opposite si	des free) 3=Corner (2 or 3 sides free)
DESCRIPTION OF THE BUILD	DING	
Number of stories 🔯 Numbe	r of apartments 🗆 Area of story (m2	, approx.) 120 Year of construction 198
Type of structural system: (see b	ack page) 52* Usage: (see back page	GROUND STORY TO STORIES TO
Soft or weak story (e.g. pilotis, etc	YES NO Irregularity	0=None 1= In height 2= In layout 3= Both
	ti-level foundation YES NO	
DARACE (-) CENEDITY.	1 - N 2 - Silinha 2 - N	fadamata Hanna A - Sanana Tatal
DAMAGE (a) SEVERITY: (b) EXTENT:	1 = None 2 = Slight 3 = M 1 = None 2 = Few 3 = M	foderate - Heavy 4 = Severe - Total Few to several 4 = Several to many
COLUMNS BIZ SHEAR V	WALLS/ ELEV. SHAFT 🗆 F	RAME JOINTS 22 BEAMS 22
STAIRS $\Box\Box$		NFILL WALLS (masonry, ecc) BB
		BUILDING OUT OF PLUMB
	AND THE CONTROL OF THE SECTION AND THE SECTION	
Apparent ground problems: 5=Ground fissures 6=Rockfalls	1=None 2=Settlement 7=Other (explain)	3=Liquefaction 4=Slope movemen
Indirect damage: 2 1=No	ne 2=Pounding to adjacent building	3=Fire 4=Other (explain)
	ound story X 1st story X	Other stories
inspected. Exterior 25 Gro	and story A 1 story A	Other stories
D. OVERALL ASSESSMENT F	OR USE (See back page for explanations	s):
	OR USE (See back page for explanations Unsafe for use	
Safe for use (GREEN)	OR USE (See back page for explanations Unsafe for use (YELLOW)	Dangerous for use (RED)
Safe for use	Unsafe for use	Dangerous for use
Safe for use (GREEN)	Unsafe for use	Dangerous for use (RED)
Safe for use (GREEN) The assessment made is: for t	Unsafe for use (YELLOW)	Dangerous for use (RED)
Safe for use (GREEN) The assessment made is: for t HUMAN LOSSES (if known):	Unsafe for use (YELLOW) he whole building: for part of the	Dangerous for use (RED) building:
Safe for use (GREEN) The assessment made is: for t HUMAN LOSSES (if known): ACTION TAKEN:	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local h	Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required
Safe for use (GREEN) The assessment made is: for t HUMAN LOSSES (if known): ACTION TAKEN: 4 4 = Combination of actions 2 and 3	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due t	Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required
Safe for use (GREEN) The assessment made is: for the asse	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due t 2 = Medium 3 = High	Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required to possible collapse
Safe for use (GREEN) The assessment made is: for the the following elements should	Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due t 2 = Medium 3 = High be demolished or removed	Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required to possible collapse
Safe for use (GREEN) The assessment made is: for the theorem of t	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths	Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse
Safe for use (GREEN) The assessment made is: for the theorem of t	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths	Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse
Safe for use (GREEN) The assessment made is: for the theorem of the following areas is profit to the following utilities must be discovered.	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local h 3 5 = Urgent re-inspection due t 2 = Medium 3 = High be demolished or removed	Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse
Safe for use (GREEN) The assessment made is: for the the following areas is proceed to the following utilities must be discomments: **Comments: **Com	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths CC 1 = None 2 = Remove local h 3 5 = Urgent re-inspection due t 2 = Medium 3 = High be demolished or removed connected: electricity was Placer masony, 1st Place	Dangerous for use (RED) building: Number of injuries nazards** 3 = Urgent support required to possible collapse uter gas or : R-C
Safe for use (GREEN) The assessment made is: for the theorem of t	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths CC 1 = None 2 = Remove local h 3 5 = Urgent re-inspection due t 2 = Medium 3 = High be demolished or removed chibited and must be blocked connected: electricity was Placer masonya Ist Place	Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse ter gas grader gas or Rec.
Safe for use (GREEN) The assessment made is: for the the following elements should access to the following areas is protected by the following utilities must be discontinuous account of the following utilities must be discontinuous.	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths CC 1 = None 2 = Remove local h 3 5 = Urgent re-inspection due t 2 = Medium 3 = High be demolished or removed chibited and must be blocked connected: electricity was Placer masonya Ist Place	Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required to possible collapse ter gas OC. R-C.
Safe for use (GREEN) The assessment made is: for the theorem of the session of t	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths	Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required to possible collapse ter gas or: R-C
Safe for use (GREEN) The assessment made is: for the theorem of the following areas is profiled for the following utilities must be discomments: * Grand	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths CC 1 = None 2 = Remove local h 3 5 = Urgent re-inspection due t 2 = Medium 3 = High be demolished or removed connected: electricity was Place masonya Ist Place 2. Signature	Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse ter gas Or : R-C. 3. Signature



Photo 2: Building at Kornarou 16 str.

OFFIC	LAUTHORITYCHANII CECITY OF CHA	PREFECTURE NIA	Crew No: 4. Report No: 2.1
	INSPECTION FORM:	RAPID ASSESSMENT (1st)	DETAILED ASSESSMENT* (2 nd)
	*The information in i	talics need not be filled in du	aring the rapid (1st) assessment
Street Section 2	tion No: 4 Block No: APOKO RONOU 3	No. 18. Postal Code. 172. Or Streets surrounding block BONIALI 4 S	#31.35 Town/Municipality CHANIA 1
	SCRIPTION OF THE BUILD		AUG Variet and another AUG
			approx.) TOO Year of construction TOO GROUND STORY TO STORIES TO
			=None 1= In height 2= In layout 3= Both
		i-level foundation YES \(\Bar{\cap} \) NO \(\Bar{\cap} \)	-None 1- In neight 2- In tayout 3- Both
IVU	imber of vasements 🗆 Matte		
C. D.	AMAGE (a) SEVERITY: (b) EXTENT:	1 = None 2 = Slight 3 = M I = None 2 = Few 3 = F	oderate - Heavy 4 = Severe - Total Yew to several 4 = Several to many
CO	LUMNS 20 SHEAR W	ALLS/ ELEV. SHAFT 20 FR	rame joints 🛮 🗗 beams 🖺
STA	AIRS ZO	BEARING WALLS	NFILL WALLS (masonry, ecc)
RO	OF C	HIMNEYS, PARAPETS	BUILDING OUT OF PLUMB
	parent ground problems: Ground fissures 6=Rockfalls		3=Liquefaction 4=Slope movement
Ind	lirect damage: 🗖 1=Non		3=Fire 4=Other (explain)
			Other stories
n	OVERALL ASSESSMENT FO	R USE (See back page for explanations))•
	Safe for use (GREEN)	Unsafe for use (YELLOW)	Dangerous for use (RED)
Th	e assessment made is: for the	e whole building: 🂢 for part of the	building:
Е. Н	UMAN LOSSES (if known):	Number of deaths \	Number of injuries $\Box\Box$
	CTION TAKEN: Combination of actions 2 and 3		azards** 3 = Urgent support required possible collapse
Uı	rgency: 1 = Low	2 = Medium 3 = High	
**	The following elements should b	e demolished or removed	
Acc	cess to the following areas is pro-	hibited and must be blocked	
The	e following utilities must be disco	onnected: electricity was	ter 🗌 gas 🗍
CO			
	ECTION TEAM DATA pature	2. Signature	3. Signature
Na	me/ Title	Name/ Title	Name /Title
	ECTION FORM RECEIVED BY	, and a	ger 🗌 Other 🗎
Recip	ient's Signature	Name	Date

With the second	RAPID ASSESSMENT (1st)	DETAILED ASSESSMENT* (2nd)
*The information in	italics need not be filled in du	ring the rapid (1st) assessment
Section No:	No. 18. Postal Code? 17.2. Or Streets surrounding block. BONIALI 4. SE	1313.5 Town/Municipality CHANIA : 1 KORNAROU PAKLON
Position of building in block:	1=Free 2=Middle (2 opposite sid	les free) 3=Corner (2 or 3 sides free)
Type of structural system: (see ba	r of apartments \(\begin{aligned} \text{Q} \\ \text{Area of story (m2,} \\ \text{ack page)} \text{ Usage: (see back page)} \(\text{YES} \bigcap \text{ NO} \text{ \text{\$\sum Irregularity}} \bigcap 0 \)	approx.) 120 Year of construction 196 GROUND STORY 10 STORIES 10 =None 1= In height 2= In layout 3= Both
Number of basements Muli	ti-level foundation YES NOX	
C. DAMAGE (a) SEVERITY: (b) EXTENT:		oderate - Heavy 4 = Severe - Total wew to several 4 = Several to many
		AME JOINTS 20 BEAMS B12
STAIRS 20		NFILL WALLS (masonry, ecc)
		BUILDING OUT OF PLUMB
Apparent ground problems: 5=Ground fissures 6=Rockfalls	1=None 2=Settlement 7=Other (explain)	3=Liquefaction 4=Slope movement
Indirect damage: 1=Nor	ne 2=Pounding to adjacent building	3=Fire 4=Other (explain)
		Other stories
D. OVERALL ASSESSMENT FO	OR USE (See back page for explanations)	:
Safe for use (GREEN)	Unsafe for use (YELLOW)	Dangerous for use (RED)
The assessment made is: for the	he whole building: X for part of the	building:
	he whole building: \square for part of the Number of deaths $\square\square$	building: ☐ Number of injuries ☐☐ Output Number of injuries ☐☐ Output Number of injuries ☐☐ Number of injuries ☐☐ Number of injuries ☐☐ Number of injuries ☐☐
. HUMAN LOSSES (if known):	Number of deaths \	Number of injuries \(\sum_{\text{\tint{\text{\tin}\text{\tex{\tex
. HUMAN LOSSES (if known):	Number of deaths \	Number of injuries \(\sum_{\text{\tint{\text{\tin}\text{\tex{\tex
HUMAN LOSSES (if known): ACTION TAKEN: 4 = Combination of actions 2 and 3 Urgency: B 1 = Low	Number of deaths \(\sum \textsq \equiv \) 1 = None \(2 = \text{Remove local ha} \) 5 = Urgent re-inspection due to 2 = Medium \(3 = \text{High} \)	Number of injuries \(\sum_{\text{\tint{\text{\tin}\text{\tex{\tex
HUMAN LOSSES (if known): ACTION TAKEN: 4 = Combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should	Number of deaths \(\sum \textsq \emptysete \) 1 = None \(2 = \text{Remove local ha} \) 5 = Urgent re-inspection due to \(2 = \text{Medium} \) 2 = Medium \(3 = \text{High} \) be demolished or removed	Number of injuries \(\subseteq \subseteq \) Number of injuries \(\subseteq \subseteq \) Possible collapse
HUMAN LOSSES (if known): ACTION TAKEN: 4 = Combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should access to the following areas is pro The following utilities must be disc	Number of deaths \(\subseteq \textsq \) 1 = None \(2 = \text{Remove local ha} \) 5 = Urgent re-inspection due to \(2 = \text{Medium} \) \(3 = \text{High} \) be demolished or removed	Number of injuries \(\subseteq \textstyle \
HUMAN LOSSES (if known): ACTION TAKEN: 4 = Combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should access to the following areas is pro The following utilities must be disc	Number of deaths \(\subseteq \textsq \) 1 = None \(2 = \text{Remove local ha} \) 5 = Urgent re-inspection due to \(2 = \text{Medium} \) \(3 = \text{High} \) be demolished or removed	Number of injuries \(\sum_{\text{\tinit}}\text{\texi}\text{\text{\text{\ti}\tilit{\text{\texi}\text{\text{\text{\text{\text{\text{
HUMAN LOSSES (if known): ACTION TAKEN: 4 = Combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should be access to the following areas is pro The following utilities must be discontinuously.	Number of deaths \(\begin{align*} \Pi \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Number of injuries \(\subseteq \textstyle \
HUMAN LOSSES (if known): ACTION TAKEN: 4 = Combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should? Access to the following areas is pro The following utilities must be disc COMMENTS:	Number of deaths \(\begin{align*} \Pi \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Number of injuries \(\begin{align*} \D \D \\ \D
ACTION TAKEN: 4 = Combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should to Access to the following areas is pro The following utilities must be discontinuously. COMMENTS: (1) (1) (1) (2) (1) (1) (2) (1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Number of deaths \(\begin{align*} \Pi \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Number of injuries \(\begin{align*} \D \D \\ \D

	TION FORM:	RAPID ASSESSMENT (1st)	DETAILED ASSESSMENT*	(2")
*The i	nformation in	italics need not be filled in	during the rapid (1st) asses	ssment
Street Section No:	4 Block No:	0 1	ck: 1 KORNAROL	
Position of bui	lding in block: 2	1=Free 2=Middle (2 opposite	sides free) 3=Corner (2 or 3 si	des free)
DESCRIPTION	ON OF THE BUILI	DING		
Number of sto	ories 🗆 Number	r of apartments 🗆 Area of story (n	12, approx.) 🖽 Year of constru	ction 1950
Type of struc	tural system: (see ba	ack page) DA Usage: (see back page	ge) GROUND STORY BO S	TORIES AD
Soft or weak s	tory (e.g. pilotis, etc)	YES NO Irregularity	0=None I= In height 2= In layou	t = Both
Number of bo	asements 🗌 Muli	ti-level foundation YES \square NO \square		
	a) SEVERITY:		Moderate - Heavy 4 = Severe -	
	(E245-6	$I = None \qquad 2 = Few \qquad 3 =$		555454
COLUMNS	2 SHEAR V	VALLS/ ELEV. SHAFT □□	FRAME JOINTS 20 BEA	AMS 20
STAIRS		BEARING WALLS	INFILL WALLS (masonry, ecc)	30
ROOF	. D C	CHIMNEYS, PARAPETS	BUILDING OUT OF PLUMB	
	ound problems: oures 6=Rockfalls	1=None 2=Settlement 7=Other (explain)	3=Liquefaction 4=S	The state of the s
Indirect dam	age: 2 1=Nor	ne 2=Pounding to adjacent building	3=Fire 4=Other (explain)	
Inspected: I	Exterior 🛭 Gro	und story 🛚 1 st story 🗆	Other stories	
OVERALI	ASSESSMENT FO	OR USE (See back page for explanatio	ns):	
Safe for us (GREEN)	e	Unsafe for use (YELLOW)	Dangerous for use (RED)	
	nt made is : for the	he whole building: X for part of the	he building:	
The assessme				
	OSSES (if known):	Number of deaths	Number of injuri	es 🗆 🗆 🗆
HUMAN LO	_	1 = None 2 = Remove local	hazards** 3 = Urgent support	
HUMAN LO ACTION TA 4 = Combinat	KEN: 🗹	1 = None 2 = Remove local	hazards** 3 = Urgent support	
HUMAN LO ACTION TA 4 = Combinat Urgency: ** The follow	ion of actions 2 and 3 1 = Low ing elements should	1 = None 2 = Remove local 5 = Urgent re-inspection due 2 = Medium 3 = High be demolished or removed	hazards** 3 = Urgent support e to possible collapse	required
HUMAN LO ACTION TA 4 = Combinat Urgency: ** The follow Access to the f	ion of actions 2 and 3 1 = Low ing elements should	1 = None 2 = Remove local 3 5 = Urgent re-inspection due 2 = Medium 3 = High be demolished or removed	hazards** 3 = Urgent support e to possible collapse	required
HUMAN LO ACTION TA 4 = Combinate Urgency: ** The following The following	ion of actions 2 and 3 1 = Low ing elements should be following areas is pro- utilities must be disc	1 = None 2 = Remove local 3 5 = Urgent re-inspection due 2 = Medium 3 = High be demolished or removed	hazards** 3 = Urgent support e to possible collapse	required
HUMAN LO ACTION TA 4 = Combinate Urgency: ** The following The following COMMENTS	ion of actions 2 and 3 1 = Low ing elements should be following areas is pro- utilities must be disc	1 = None 2 = Remove local 3 5 = Urgent re-inspection due 2 = Medium 3 = High be demolished or removed	hazards** 3 = Urgent support e to possible collapse	required
HUMAN LO ACTION TA 4 = Combinat Urgency: ** The follow Access to the f The following COMMENTS	ion of actions 2 and 3 1 = Low ing elements should be following areas is pro- utilities must be disc	1 = None 2 = Remove local 3 5 = Urgent re-inspection due 2 = Medium 3 = High be demolished or removed	hazards** 3 = Urgent support e to possible collapse	required
HUMAN LO ACTION TA 4 = Combinat Urgency: ** The follow Access to the f The following COMMENTS	ion of actions 2 and 3 1 = Low ing elements should be following areas is pro- utilities must be discommon actions.	1 = None 2 = Remove local 3 5 = Urgent re-inspection due 2 = Medium 3 = High be demolished or removed chibited and must be blocked	hazards** 3 = Urgent support e to possible collapse	required
HUMAN LO ACTION TA 4 = Combinat Urgency: ** The follow Access to the f The following COMMENTS SPECTION TO Signature	ion of actions 2 and 3 1 = Low ing elements should be following areas is pro- utilities must be discommon actions.	1 = None 2 = Remove local 3 5 = Urgent re-inspection due 2 = Medium 3 = High be demolished or removed chibited and must be blocked connected: electricity \(\)	hazards** 3 = Urgent support to possible collapse water gas 3. Signature	required

INSPECTION FORM:	RAPID ASSESSMENT (1st)	DETAILED ASSESSMENT* (2nd)
*The information in	italics need not be filled in di	uring the rapid (1st) assessment
2APOKORONOU3.	No. 22. Postal Code 172. Or Streets surrounding block BONILL 4	F3136 Town/Municipality CHANIA : 1 KORNAROU DFAKLON 5 des free) 3=Corner (2 or 3 sides free)
DESCRIPTION OF THE BUILD		approx.) TFO Year of construction 1950
Type of structural system: (see b Soft or weak story (e.g. pilotis, etc	ack page) 20 Usage: (see back page)) YES \(\text{NO} \text{N} \) Irregularity \(\text{O} \)	GROUND STORY BO STORIES 10 9=None 1= In height 2= In layout 3= Both
Number of basements Mul	ti-level foundation YES \(\square\) NO \(\)	
. DAMAGE (a) SEVERITY: (b) EXTENT:		foderate - Heavy 4 = Severe - Total Sew to several 4 = Several to many
COLUMNS BIQ SHEAR	WALLS/ELEV. SHAFT 10 F	RAME JOINTS 212 BEAMS 312
STAIRS $\Box\Box$	BEARING WALLS	NFILL WALLS (masonry, ecc) BB
ROOF \square	CHIMNEYS, PARAPETS	BUILDING OUT OF PLUMB
Apparent ground problems: 5=Ground fissures 6=Rockfalls	1=None 2=Settlement 7=Other (explain)	3=Liquefaction 4=Slope movement
	ne 2=Pounding to adjacent building	
		3=Fire 4=Other (explain)
A CONTRACTOR OF THE PARTY OF TH		3=Fire 4=Other (explain)
A CONTRACTOR OF THE PARTY OF TH		3=Fire 4=Other (explain) Other stories
Inspected: Exterior X Gro		Other stories 💢
Inspected: Exterior X Gro	und story X 1st story X	Other stories 💢
D. OVERALL ASSESSMENT FOR Safe for use (GREEN)	OR USE (See back page for explanations Unsafe for use	Other stories (RED)
D. OVERALL ASSESSMENT FOR Safe for use (GREEN)	OR USE (See back page for explanations Unsafe for use (YELLOW)	Other stories (RED) Dangerous for use (RED)
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the same for the sam	OR USE (See back page for explanations Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local he	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required
Inspected: Exterior Gro D. OVERALL ASSESSMENT For Safe for use (GREEN) The assessment made is: for the same for the sam	OR USE (See back page for explanations Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local he	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required
Inspected: Exterior Gro D. OVERALL ASSESSMENT For Safe for use (GREEN) The assessment made is: for the same for the sam	or use (YELLOW) The whole building: for part of the Number of deaths 1 = None	Other stories Dangerous for use (RED) building: Number of injuries DD azards** 3 = Urgent support required o possible collapse
Inspected: Exterior Gro D. OVERALL ASSESSMENT For Safe for use (GREEN) The assessment made is: for the same for the sam	OR USE (See back page for explanations Unsafe for use (YELLOW) he whole building: for part of the Number of deaths DD 1 = None 2 = Remove local has 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed	Other stories Dangerous for use (RED) building: Number of injuries DD azards** 3 = Urgent support required o possible collapse
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the same for the sam	OR USE (See back page for explanations Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None	Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse ter gas gas gas gas
Inspected: Exterior Gro D. OVERALL ASSESSMENT For Safe for use (GREEN) The assessment made is: for the same of t	OR USE (See back page for explanations Unsafe for use (YELLOW) he whole building: for part of the Number of deaths DD 1 = None 2 = Remove local has 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed and building to be demolished or removed connected: electricity was	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse
Inspected: Exterior Gro D. OVERALL ASSESSMENT For Safe for use (GREEN) The assessment made is: for the same of t	OR USE (See back page for explanations Unsafe for use (YELLOW) he whole building: for part of the Number of deaths DD 1 = None 2 = Remove local has 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed and building to be demolished or removed connected: electricity was	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse ter gas gas
Inspected: Exterior Gro D. OVERALL ASSESSMENT For Safe for use (GREEN) The assessment made is: for the sessessment made is: for t	OR USE (See back page for explanations Unsafe for use (YELLOW) he whole building: for part of the Number of deaths DD 1 = None 2 = Remove local has 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed and building to be demolished or removed connected: electricity was	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse ter gas gas



Photo 3: Buildings at Kornarou 18 and Kornarou 22 str.

INSP	ECTION FORM:	RAPID ASSESSMENT (1st)	DETAILED ASSESSMENT* (2 nd)	
*The	e information in	italics need not be filled in di	uring the rapid (1st) assessment	
	G LOCATION AND			
Street	KORNAROU	No. 3.Q. Postal Code	.73136 Town/Municipality CHANLA.	
Section No:			: 1 KORNAROU	
			55	
Position of	building in block:	1=Free 2=Middle (2 opposite si	des free) 3=Corner (2 or 3 sides free)	
B. DESCRIP	TION OF THE BUIL	DING		
Number of	stories 🕮 Numbe	er of apartments 2 Area of story (m2,	, approx.) 150 Year of construction	96
Type of str	ructural system: (see b	pack page) Da Usage: (see back page)	GROUND STORY BO STORIES A	0,3
Soft or wea	k story (e.g. pilotis, etc	c) YES 🗆 NO 🗶 Irregularity 🗀	0=None 1= In height 2= In layout 3= Both	
Number of	basements 🗆 Mu	lti-level foundation YES NO		
n n 1 3 5 1 6 7	· /-> CENTEDIES/.	1 - N 2 - 58-4 2 - N	foliante Manage A - Causes Total	
. DAWAGI	E (a) SEVERITY: (b) EXTENT:	1 = None $2 = Slight$ $3 = M1 = None$ $2 = Few$ $3 = M$	Few to several $4 = $ Severe -1 of $4 = $ Several to many	
COLUMNS	8 0	WALLS/ELEV. SHAFT ZD FI	RAME JOINTS 20 BEAMS 10	1
STAIRS	30	BEARING WALLS	——	
DOOF	П	CHIMNEYS PARAPETS	BUILDING OUT OF PLUMB	T
ROOF		CHIMNEYS, PARAPETS		Í
Apparent	ground problems:	1=None 2=Settlement	3=Liquefaction 4=Slope mover	nent
Apparent	ground problems: fissures 6=Rockfalls	1=None 2=Settlement 7=Other (explain)	3=Liquefaction 4=Slope mover	nent
Apparent : 5=Ground : Indirect d	ground problems: fissures 6=Rockfalls amage: 2 1=No	1=None 2=Settlement 7=Other (explain)	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain)	nent
Apparent : 5=Ground : Indirect d	ground problems: fissures 6=Rockfalls amage: 2 1=No	1=None 2=Settlement 7=Other (explain)	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain)	nent
Apparent 5=Ground 1 Indirect d Inspected:	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro	1=None 2=Settlement 7=Other (explain) ne 2=Pounding to adjacent building ound story ⋈ I st story □	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain)	nent
Apparent : 5=Ground : Indirect d Inspected: D. OVERA	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro	1=None 2=Settlement 7=Other (explain) one 2=Pounding to adjacent building ound story A Ist story FOR USE (See back page for explanations	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain) Other stories Si:	nent
Apparent : 5=Ground : Indirect d Inspected: D. OVERA	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro LLL ASSESSMENT F	1=None 2=Settlement 7=Other (explain) one 2=Pounding to adjacent building ound story	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain) Other stories Dangerous for use	nent
Apparent : 5=Ground : Indirect d Inspected: D. OVERA	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro LLL ASSESSMENT F	1=None 2=Settlement 7=Other (explain) one 2=Pounding to adjacent building ound story A Ist story FOR USE (See back page for explanations	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain) Other stories Si:	nent
Apparent : 5=Ground : Indirect d Inspected: D. OVERA Safe for (GREE	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro LLL ASSESSMENT F use	1=None 2=Settlement 7=Other (explain) ne 2=Pounding to adjacent building ound story ⋈ I st story □ FOR USE (See back page for explanations Unsafe for use (YELLOW)	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain) Other stories Dangerous for use (RED)	nent
Apparent : 5=Ground : Indirect d Inspected: D. OVERA Safe for (GREE	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro LLL ASSESSMENT F use	1=None 2=Settlement 7=Other (explain) one 2=Pounding to adjacent building ound story	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain) Other stories Dangerous for use (RED)	nent
Apparent : 5=Ground : Indirect d Inspected: D. OVERA Safe for (GREE	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro LLL ASSESSMENT F use	1=None 2=Settlement 7=Other (explain) ne 2=Pounding to adjacent building ound story ⋈ I st story □ FOR USE (See back page for explanations Unsafe for use (YELLOW)	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain) Other stories Dangerous for use (RED)	ment
Apparent : 5=Ground : Indirect d Inspected: D. OVERA Safe for (GREE The assess:	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro LLASSESSMENT F use N) ment made is : for LOSSES (if known):	1=None 2=Settlement 7=Other (explain) one 2=Pounding to adjacent building ound story	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain) Other stories Dangerous for use (RED) building:	ment
Apparent : 5=Ground : Indirect d Inspected: D. OVERA Safe for (GREE The assess: E. HUMAN : F. ACTION	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro LLL ASSESSMENT F use N) ment made is : for LOSSES (if known): TAKEN: 4	1=None 2=Settlement 7=Other (explain) ne 2=Pounding to adjacent building pund story Ist story □ FOR USE (See back page for explanations Unsafe for use (YELLOW) the whole building: Number of deaths □□□ 1 = None 2 = Remove local h	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain) Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required	ment
Apparent of 5=Ground of Indirect do Inspected: D. OVERA Safe for (GREE The assess) E. HUMAN of ACTION 4 = Combined to 1 = Co	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro LLL ASSESSMENT F use EN) ment made is : for LOSSES (if known): TAKEN: 4 nation of actions 2 and	1=None 2=Settlement 7=Other (explain) ne 2=Pounding to adjacent building ound story Ist story □ FOR USE (See back page for explanations Unsafe for use (YELLOW) the whole building: for part of the Number of deaths □□□ 1 = None 2 = Remove local h 5 = Urgent re-inspection due to	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain) Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required	ment
Apparent : 5=Ground : Indirect d Inspected: D. OVERA Safe for (GREE The assess: E. HUMAN 4 = Combin Urgency:	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro LLL ASSESSMENT F use N) ment made is: for LOSSES (if known): TAKEN: 4 nation of actions 2 and 1 = Low	1=None 2=Settlement 7=Other (explain) ne 2=Pounding to adjacent building ound story Ist story □ FOR USE (See back page for explanations Unsafe for use (YELLOW) the whole building: Number of deaths □□□ 1 = None 2 = Remove local h 3 5 = Urgent re-inspection due to 2 = Medium 3 = High	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain)	ment
Apparent : 5=Ground : Indirect d Inspected: D. OVERA Safe for (GREE The assess: E. HUMAN 4 = Combin Urgency: ** The following	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro LL ASSESSMENT F use (N) ment made is : for LOSSES (if known): TAKEN: 4 nation of actions 2 and 1 = Low owing elements should	1=None 2=Settlement 7=Other (explain) ne 2=Pounding to adjacent building ound story	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain)	ment
Apparent : 5=Ground : Indirect d Inspected: D. OVERA Safe for (GREE The assess: E. HUMAN : 4 = Combin Urgency: ** The folk Access to the	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior 6 Gro LL ASSESSMENT F use (N) ment made is: for LOSSES (if known): TAKEN: 4 nation of actions 2 and 1 = Low owing elements should ne following areas is pro-	1=None 2=Settlement 7=Other (explain) ne 2=Pounding to adjacent building ound story	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain) Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse	ment
Apparent : 5=Ground : Indirect d Inspected: D. OVERA Safe for (GREE The assess: E. HUMAN 4 = Combin Urgency: ** The following the following state of the combin state of the combin state of the following sta	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro LLL ASSESSMENT F use (N) ment made is: for LOSSES (if known): TAKEN: 4 nation of actions 2 and 1 = Low owing elements should be following areas is pring utilities must be dis	1=None 2=Settlement 7=Other (explain) ne 2=Pounding to adjacent building pund story Ist story □ FOR USE (See back page for explanations Unsafe for use (YELLOW) the whole building: □ for part of the Number of deaths □□□ 1 = None 2 = Remove local h 3 5 = Urgent re-inspection due t 2 = Medium 3 = High the demolished or removed	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain)	ment
Apparent : 5=Ground : Indirect d Inspected: D. OVERA Safe for (GREE The assess: E. HUMAN 4 = Combin Urgency: ** The following the following state of the combin state of the combin state of the following sta	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro LLL ASSESSMENT F use (N) ment made is: for LOSSES (if known): TAKEN: 4 nation of actions 2 and 1 = Low owing elements should be following areas is pring utilities must be dis	1=None 2=Settlement 7=Other (explain) ne 2=Pounding to adjacent building pund story Ist story □ FOR USE (See back page for explanations Unsafe for use (YELLOW) the whole building: □ for part of the Number of deaths □□□ 1 = None 2 = Remove local h 3 5 = Urgent re-inspection due t 2 = Medium 3 = High the demolished or removed	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain)	ment
Apparent : 5=Ground : Indirect d Inspected: D. OVERA Safe for (GREE The assess: E. HUMAN : 4 = Combin Urgency: ** The folk Access to th The followin	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro LL ASSESSMENT F use (N) ment made is: for LOSSES (if known): TAKEN: 4 nation of actions 2 and 1 = Low owing elements should be following areas is pr ng utilities must be dis ITS: Logent Left poor	1=None 2=Settlement 7=Other (explain) ne 2=Pounding to adjacent building ound story Ist story FOR USE (See back page for explanations Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None 2 = Remove local h	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain)	ment
Apparent : 5=Ground : Indirect d Inspected: D. OVERA Safe for (GREE The assess: E. HUMAN : 4 = Combin Urgency: ** The folk Access to th The followin	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior 6 Exterior 6 Gro LL ASSESSMENT F use (N) ment made is: for LOSSES (if known): TAKEN: 4 nation of actions 2 and 1 = Low owing elements should be following areas is pr ing utilities must be dis ITS: 1 1 2 2 3	1=None 2=Settlement 7=Other (explain) one 2=Pounding to adjacent building ound story 1story OR USE (See back page for explanations Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None 2 = Remove local h 3 5 = Urgent re-inspection due t 2 = Medium 3 = High be demolished or removed orbibited and must be blocked connected: electricity was support the coulding de	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain)	ment
Apparent : 5=Ground : Indirect d Inspected: D. OVERA Safe for (GREE The assess: E. HUMAN 4 = Combin Urgency: ** The following COMMEN	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro LL ASSESSMENT F use (N) ment made is : for LOSSES (if known): TAKEN: 4 nation of actions 2 and b 1 = Low owing elements should ne following areas is put ng utilities must be dis its: left pos	1=None 2=Settlement 7=Other (explain) one 2=Pounding to adjacent building ound story 1story OR USE (See back page for explanations Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None 2 = Remove local h 3 5 = Urgent re-inspection due t 2 = Medium 3 = High be demolished or removed orbibited and must be blocked connected: electricity was support the coulding de	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain)	ment
Apparent : 5=Ground : Indirect d Inspected: D. OVERA Safe for (GREE The assess: E. HUMAN 4 = Combin Urgency: ** The following COMMEN NSPECTION	ground problems: fissures 6=Rockfalls amage: 2 1=No Exterior Gro LL ASSESSMENT F use N) ment made is: for LOSSES (if known): TAKEN: 4 nation of actions 2 and 1 = Low owing elements should be following areas is put ng utilities must be dis its: left pos	1=None 2=Settlement 7=Other (explain) ne 2=Pounding to adjacent building pund story Istory OR USE (See back page for explanations Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None 2 = Remove local h 3 5 = Urgent re-inspection due t 2 = Medium 3 = High be demolished or removed conhibited and must be blocked sconnected: electricity was scapace to see the second of the sconnected of the sconne	3=Liquefaction 4=Slope mover 3=Fire 4=Other (explain)	ment

INSPE	CTION FORM:	RAPID ASSESSMENT (1st)	DETAILED ASSESSMENT	(2 nd)
*The	information in	italics need not be filled in d	uring the rapid (1st) asse.	ssment
Street	LOCATION AND II KORNAROU Block No: CKORONOU .3.	No. 30. Postal Code AT.2Or Streets surrounding bloc BONIALL 4SF	F3136 Town/Municipality k: 1KORNAROU AKION	CHANIA
	1-2-3	1=Free 2=Middle (2 opposite s		
DESCRIPT	ION OF THE BUILD	INC		
	2015 PART : : : : : : : : : : : : : : : : : : :	of apartments 2 Area of story (m2	, approx.) 150 Year of constr	action 1960
		ack page) 24 Usage: (see back page		TORIES 40,20
		YES NO Irregularity		
		i-level foundation YES NO	9	
. DAMAGE	(a) SEVERITY: (b) EXTENT:	1 = None $2 = Slight$ $3 = Note$ $1 = None$ $2 = Few$ $3 = Note$	Moderate - Heavy $4 = $ Severe - $4 = $ Several $4 = $ Several	
COLUMNS		THE COURSE IN MERCHANISM SEASON		AMS 10
STAIRS	32		INFILL WALLS (masonry, ecc)	319
ROOF			BUILDING OUT OF PLUMB	П
	round problems: description of the second problems: description of	1=None 2=Settlement 7=Other (explain)	3=Liquefaction 4=S	(- 7)
	Exterior 🛛 Grou	and story ⊠ I st story ⊠		
D. OVERAI	Exterior Ground	DR USE (See back page for explanations Unsafe for use	Other stories 💢	
D. OVERAI Safe for t	Exterior Ground	OR USE (See back page for explanations Unsafe for use (YELLOW)	Other stories \(\overline{\overline	
D. OVERAI Safe for t (GREEN The assessm	Exterior Ground	OR USE (See back page for explanations Unsafe for use (YELLOW)	Other stories Dangerous for use (RED)	
D. OVERAI Safe for t (GREEN The assessm	Exterior Ground	DR USE (See back page for explanations Unsafe for use (YELLOW) ne whole building: for part of the Number of deaths 1 = None 2 = Remove local h	Other stories Dangerous for use (RED) building: Number of injuring azards** 3 = Urgent support	ies DR4
D. OVERAI Safe for t (GREEN The assessm	Exterior Ground	DR USE (See back page for explanations Unsafe for use (YELLOW) ne whole building: Number of deaths 1 = None 2 = Remove local h	Other stories Dangerous for use (RED) building: Number of injurations around the support	ies DR4
D. OVERAI Safe for to (GREEN The assessm D. HUMAN L D. ACTION T 4 = Combinat Urgency: ** The follow	Exterior Ground	DR USE (See back page for explanations Unsafe for use (YELLOW) ne whole building: for part of the Number of deaths 1 = None 2 = Remove local to the second page of the second page o	Other stories Dangerous for use (RED) building: Number of injurity to possible collapse	ies DDA
D. OVERAL Safe for the (GREEN) The assessment of the Action The Combination of the Combin	Exterior Ground	DR USE (See back page for explanations Unsafe for use (YELLOW) The whole building: for part of the Number of deaths 1 = None	Other stories Dangerous for use (RED) building: Number of injuring azzards** 3 = Urgent support to possible collapse	ies DDZ4
D. OVERAI Safe for to (GREEN The assessment of t	Exterior Ground	DR USE (See back page for explanations Unsafe for use (YELLOW) ne whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed hibited and must be blocked onnected: electricity was	Other stories Dangerous for use (RED) building: Number of injurated by the possible collapse The possible collapse of	ies OC4 required
D. OVERAI Safe for to (GREEN The assessment of t	Exterior Ground	DR USE (See back page for explanations Unsafe for use (YELLOW) ne whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed hibited and must be blocked onnected: electricity was	Other stories Dangerous for use (RED) building: Number of injurated by the possible collapse The possible collapse of	ies 004 required
D. OVERAI Safe for to (GREEN The assessm HUMAN L ACTION T 4 = Combina Urgency: ** The followin Access to the The followin COMMENT	Exterior Ground	DR USE (See back page for explanations Unsafe for use (YELLOW) ne whole building: for part of the Number of deaths 1 = None 2 = Remove local b 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed chibited and must be blocked	Other stories Dangerous for use (RED) building: Number of injurated by the possible collapse ther gas for 3 columns in	ies 004 required
D. OVERAI Safe for to (GREEN The assessm HUMAN L ACTION T 4 = Combina Urgency: ** The follow Access to the The followin COMMENT NSPECTION Signature	Exterior Ground	DR USE (See back page for explanations Unsafe for use (YELLOW) ne whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed hibited and must be blocked onnected: electricity was	Other stories Dangerous for use (RED) building: Number of injuration possible collapse The gas for 3 columns in the gas for 3 columns in the gas 3. Signature	ies 00.4 required



Photo 4: Building at Kornarou 30 str.

INSPECTION FORM:	RAPID ASSESSMENT (1st) 💢	DETAILED ASSESSMENT* (2nd)
*The information i	n italics need not be filled in du	ring the rapid (1st) assessment
Section No:	No. 22 Postal Code. No. 32 Postal Code. Streets surrounding block:	73134 Town/Municipality CHANLA 1 SOLOMOU 5
Position of building in block:	al=Free 2=Middle (2 opposite side	es free) 3=Corner (2 or 3 sides free)
. DESCRIPTION OF THE BUI		
		approx.) 499 Year of construction 499
Soft or weak story (e.g. pilotis, e	back page) ZZ Usage: (see back page) tc) YES NO Irregularity 0: fulti-level foundation YES NO	GROUND STORY A STORIES A S
DAMAGE (a) SEVERITY: (b) EXTENT:	1 = None 2 = Slight 3 = Mo I = None 2 = Few 3 = Fe	derate - Heavy 4 = Severe -Total w to several 4 = Several to many
COLUMNS 30 SHEAF	R WALLS/ ELEV. SHAFT 20 FR	AME JOINTS 🔲 BEAMS 🗀
STAIRS 20	BEARING WALLS \(\square\) IN	TFILL WALLS (masonry, ecc)
ROOF	CHIMNEYS, PARAPETS	BUILDING OUT OF PLUMB
Apparent ground problems: 5=Ground fissures 6=Rockfall	1=None 2=Settlement s 7=Other (explain)	3=Liquefaction 4=Slope movement
		3=Fire 4=Other (explain)
		The Court (explain)
inspected: Exterior of Cr		24
mapetion. Zimonov ya	round story A 1st story A	Other stories
	FOR USE (See back page for explanations):	
D. OVERALL ASSESSMENT Safe for use (GREEN)	FOR USE (See back page for explanations): Unsafe for use	Dangerous for use (RED)
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for	FOR USE (See back page for explanations): Unsafe for use (YELLOW) r the whole building: for part of the building:	Dangerous for use (RED)
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known)	FOR USE (See back page for explanations): Unsafe for use (YELLOW) r the whole building: Number of deaths 1 = None 2 = Remove local has	Dangerous for use (RED) Number of injuries Zards** 3 = Urgent support required
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known) ACTION TAKEN:	FOR USE (See back page for explanations): Unsafe for use (YELLOW) The whole building: Number of deaths 1 = None 2 = Remove local has 5 = Urgent re-inspection due to	Dangerous for use (RED) Number of injuries Zards** 3 = Urgent support required
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known) ACTION TAKEN: 4 = Combination of actions 2 an Urgency: 1 = Low ** The following elements should	FOR USE (See back page for explanations): Unsafe for use (YELLOW) The whole building: for part of the back page for explanations): I have a second for part of the back page for explanations): I have a second for part of the back page for explanations): I have a second for part of the back page for explanations): I have a second for part of the back page for explanations): I have a second for part of the back page for explanations): I have a second for part of the back page for explanations): I have a second for part of the back page for explanations): I have a second for part of the back page for explanations): I have a second for part of the back page for explanations): I have a second for part of the back page for explanations): I have a second for part of the back page for explanations): I have a second for part of the back page for pag	Dangerous for use (RED) Number of injuries Zards** 3 = Urgent support required possible collapse
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known) ACTION TAKEN: 4 = Combination of actions 2 an Urgency: 1 = Low ** The following elements should	Insafe for use (YELLOW) The whole building: for part of the building: for part of the building: for part of the building: 1 = None 2 = Remove local had 3 5 = Urgent re-inspection due to 2 = Medium 3 = High do be demolished or removed for the building or the building for the bu	Dangerous for use (RED) Number of injuries Zards** 3 = Urgent support required possible collapse
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known) ACTION TAKEN: 4 = Combination of actions 2 an Urgency: 1 = Low ** The following elements shoul Access to the following areas is put to the following utilities must be defined.	The whole building: for part of the building	Dangerous for use (RED) Number of injuries Zards** 3 = Urgent support required possible collapse gas gas gas gas Dangerous for use (RED)
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known) ACTION TAKEN: 4 = Combination of actions 2 an Urgency: 1 = Low ** The following elements shoul Access to the following areas is I The following utilities must be d COMMENTS:	FOR USE (See back page for explanations): Unsafe for use (YELLOW) The whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the back of the back of the whole building: for part of the back of the ba	Dangerous for use (RED) Number of injuries Zards** 3 = Urgent support required possible collapse er gas gas
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known) ACTION TAKEN: 4 = Combination of actions 2 an Urgency: 1 = Low ** The following elements shoul Access to the following areas is properties to the following utilities must be decomments:	FOR USE (See back page for explanations): Unsafe for use (YELLOW) The whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the whole building: for part of the back of the back of the back of the whole building: for part of the back of the ba	Dangerous for use (RED) Number of injuries Zards** 3 = Urgent support required possible collapse Page 1 gas 1
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known) ACTION TAKEN: 4 = Combination of actions 2 an Urgency: 1 = Low ** The following elements shoul Access to the following areas is properties to the following areas is properties. The following utilities must be described by the following areas is properties.	FOR USE (See back page for explanations): Unsafe for use (YELLOW) The whole building: for part of the back of the back page for explanations): I have a seem of the back of	Dangerous for use (RED) Number of injuries Zards** 3 = Urgent support required possible collapse Page 1 gas 1
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known) ACTION TAKEN: 4 = Combination of actions 2 an Urgency: 1 = Low ** The following elements shoul Access to the following areas is p The following utilities must be d COMMENTS: NSPECTION TEAM DATA Signature.	FOR USE (See back page for explanations): Unsafe for use (YELLOW) The whole building: for part of the back of the back page for explanations): I have a seem of the back of	Dangerous for use (RED) Number of injuries Zards** 3 = Urgent support required possible collapse ar gas 3. Signature

INSPECTION FORM:	RAPID ASSESSMENT (1 st) DETAILED ASSESSMENT* (2 nd)
*The information in	n italics need not be filled in during the rapid (1st) assessment
BUILDING LOCATION AND I	
Street SOLO MOU	J. No. 22 Postal Code Town/Municipality
Section No:Block No:	
	SEAKION 4 5
Position of building in block:	1=Free 2=Middle (2 opposite sides free) 3=Corner (2 or 3 sides free)
DESCRIPTION OF THE BUIL	LDING
Number of stories Number	per of apartments 40 Area of story (m2, approx.) 400 Year of construction
Type of structural system: (see b	back page) 22 Usage: (see back page) GROUND STORY DD STORIESD
	tc) YES NO [Irregularity [0=None 1=In height 2=In layout 3=Both
- 1971년(14대 2014년 - 1871년 14대 2017년 및	ulti-level foundation YES \Boxed NO \Boxed
DAMAGE (a) SEVERITY:	1 = None 2 = Slight 3 = Moderate - Heavy 4 = Severe - Total
(b) EXTENT:	1 = None $2 = Few$ $3 = Few$ to several $4 = Several$ to many
COLUMNS 22 SHEAR	WALLS/ELEV. SHAFT BQ FRAME JOINTS AND BEAMS BB
STAIRS 22	BEARING WALLS 🖂 INFILL WALLS (masonry, ecc)
	CHIMNEYS, PARAPETS B2 BUILDING OUT OF PLUMB
Apparent ground problems: 5=Ground fissures 6=Rockfalls	1=None 2=Settlement 3=Liquefaction 4=Slope moven 7=Other (explain)
Indirect damage: 1 I=No	None 2=Pounding to adjacent building 3=Fire 4=Other (explain)
Inspected: Exterior A Gro	round story 🛭 1 st story 🖾 Other stories 🔀
D OVERALL ASSESSMENT E	FOR USE (See back page for explanations):
	the strain testing and the strain of the str
Safe for use (GREEN)	Unsafe for use (YELLOW) Dangerous for use (RED)
	- Control of the Cont
The assessment made is : for t	the whole building: X for part of the building:
HUMAN LOSSES (if known):	Number of deaths $\Box\Box\Box$ Number of injuries $\Box\Box\Box$
ACTION TAKEN: 2	1 = None 2 = Remove local hazards** 3 = Urgent support required
4 = Combination of actions 2 and	
Urgency: 2 1 = Low	2 = Medium 3 = High
** The following elements should	d be demolished or removed
Access to the following areas is pr	prohibited and must be blocked.
The following utilities must be dis	
C	
COMMENTS: The fro	ont parapet should be strengthened on
COMMENTS: The from replaced	ent parapet should be strengthened or
replaced	ont parapet should be strengthened on
replaced	d
ISPECTION TEAM DATA	d
SPECTION TEAM DATA	2. Signature 3. Signature



Photo 5: Building at Solomou 22 str.

Street. K.R.G.R.A.DO.N. No. S. Postal Code #31.35.5 TownMunicipalityCHANJA. Section No. 5. Block No. 1.36. Or Streets surrounding block: 4	III IDX E	CTION FORM:	RAPID ASSESSMENT (1st) X DETA	AILED ASSESSMENT* (2	2 nd)
BUILDING LOCATION AND ID Street. K.R.I.G.R.A.D.C.N. No. G. Postal Code #3.1.3.5 Town/MunicipalityGHANJA. Section No. 5. Block No. 4.3.6	*The	information in	italics need not be filled	in during th	he rapid (1st) assess	ment
Steet. K. R. R. R. A. D. D. No. S. Postal Code \$\frac{3}{1.3}\frac{3}{1.5}\frac{5}{10}\text{ Now. Municipality}. CHANJA. Section No. 5. Block No. 1.3 C. Or Streets surrounding block: 4						
Position of building in block:	Street	KRIARADON		al Code. 7.31.3.	Town/Municipality CH	ANJA
Position of building in block:	Section No: .	.5Block No:	[.3.8Or Streets surroundin	ig block: 1	KRIARADON	
DESCRIPTION OF THE BUILDING Number of spartments 2						
Number of stories	Position of bu	iliding in block:	1=Free 2=Miladie (2 opp	osite sides free)	3-Corner (2 or 3 side	s nee)
Type of structural system: (see back page)						
Soft or weak story (e.g. pilotis, etc) YES NO Irregularity O=None 1=In height 2=In layout 3=Both Number of basements Multi-level foundation YES NO DAMAGE (a) SEVERITY: 1=None 2=Slight 3=Moderate - Heavy 4=Severa to many				270000 ON 1777		
Number of basements						
C. DAMAGE (a) SEVERITY: 1 = None 2 = Slight 3 = Moderate - Heavy 4 = Severe - Total (b) EXTENT: 1 = None 2 = Few 3 = Few to several 4 = Several to many 5 = STARS	Soft or weak	story (e.g. pilotis, etc)	YES □ NO ☒ Irregularity	□ 0=None 1	= In height 2= In layout	3 = Both
(b) EXTENT:	Number of b	pasements 🗌 Mult	i-level foundation YES \square NO			
(b) EXTENT:	. DAMAGE	(a) SEVERITY:	1 = None 2 = Slight	3 = Moderate -	Heavy 4 = Severe -To	otal
BEARING WALLS INFILL WALLS (masonry, ecc) CHIMNEYS, PARAPETS BID BUILDING OUT OF PLUMB 2 Apparent ground problems: 1=None 2=Settlement 3=Liquefaction 4=Slope movement 5=Ground fissures 6=Rockfalls 7=Other (explain)		(b) EXTENT:	I = None $2 = Few$	3 = Few to set	veral $4 = Several to$	o many
Apparent ground problems: 2	COLUMNS	4□ SHEAR W	ALLS/ ELEV. SHAFT BO	FRAME JO	INTS 🗆 BEAN	as Bi
Apparent ground problems:	STAIRS	BO	BEARING WALLS	INFILL W	ALLS (masonry, ecc)	40
Seground fissures General Seground fissures Technology Technol	ROOF		HIMNEYS, PARAPETS BE	BUILDIN	G OUT OF PLUMB	2
Seground fissures General Seground Seground fissures General Seground	Annaront ar	ound problems:	7 1=None 2=Settlement	3=Y i	quefaction 4=Slor	ne movement
Safe for use (GREEN) The assessment made is: for the whole building: for part of the building: Number of injuries HUMAN LOSSES (if known): Number of deaths 1 = None 2 = Remove local hazards** 3 = Urgent support required 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. the whole building before it is supported. The following utilities must be disconnected: electricity water gas COMMENTS: The 1st floor was constructed later in 1982) RC NSPECTION TEAM DATA Signature Name/Title Name/Title Name/Title Name/Title Name/Title Name/Title Name/Title			1752 0.751	2570	22 17 12	
Safe for use (GREEN) The assessment made is: for the whole building: for part of the building: Number of injuries HUMAN LOSSES (if known): Number of deaths 1 = None 2 = Remove local hazards** 3 = Urgent support required 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. the whole building before it is supported. The following utilities must be disconnected: electricity water gas COMMENTS: The 1st floor was constructed later in 1982 RC NSPECTION TEAM DATA Signature Name/Title Name/Title Name/Title Name/Title Name/Title Name/Title Name/Title	D. OVERAL	L ASSESSMENT FO	OR USE (See back page for explain	nations):		
The assessment made is: for the whole building: for part of the building: Number of injuries Human Losses (if known): Number of deaths DD Number of injuries DD Number of injur			158 8 61		Dangerous for use	
HUMAN LOSSES (if known): Number of deaths						\times
HUMAN LOSSES (if known): Number of deaths						
ACTION TAKEN: 4 1 = None 2 = Remove local hazards** 3 = Urgent support required 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: B 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. the whole building before it is supported. The following utilities must be disconnected: electricity water agas accommendate. COMMENTS: The 1st floor was constructed later (in 1982) RC NSPECTION TEAM DATA Signature 2. Signature 3. Signature Name/ Title Name/ Title Name / Title	The assessme	ent made is: for the	ne whole building: 🗵 for part	t of the building:		
4 = Combination of actions 2 and 3					Number of injuries	
** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. the whole building before it is supported. The following utilities must be disconnected: electricity water gas comments: The 1st floor was constructed later (in 1982) RC NSPECTION TEAM DATA Signature Name/ Title Name/ Title Name/ Title Name/ Title	, HUMAN L	OSSES (if known):	Number of deaths		rumour or mjurios	
Access to the following areas is prohibited and must be blocked: the whole building before it is supported. The following utilities must be disconnected: electricity water gas COMMENTS: * The 1st floor was constructed later (in 1982) RC NSPECTION TEAM DATA Signature 2. Signature 3. Signature Name/ Title Name/ Title Name / Title	. ACTION T	AKEN: 4	1 = None 2 = Remove	local hazards**	3 = Urgent support rec	
The following utilities must be disconnected: electricity water as as a comments: The 1st floor was constructed later (in 1982) RC NSPECTION TEAM DATA Signature 2. Signature 3. Signature Name/ Title Name/ Title Name / Title	ACTION TA	AKEN: 4	1 = None 2 = Remove 5 = Urgent re-inspection	local hazards**	3 = Urgent support rec	
COMMENTS: * The 1st floor was constructed later (in 1982) RC NSPECTION TEAM DATA Signature 2. Signature 3. Signature Name/ Title Name / Title Name / Title	4 = Combina Urgency: ** The follow	AKEN: 4 Ition of actions 2 and 3 B 1 = Low wing elements should b	1 = None 2 = Remove 5 = Urgent re-inspection 2 = Medium 3 = High the demolished or removed	local hazards** n due to possible	3 = Urgent support rec collapse	quired
NSPECTION TEAM DATA Signature 2. Signature 3. Signature Name/ Title Name / Title Name / Title	4 = Combina Urgency: ** The follow	AKEN: 4 Ition of actions 2 and 3 B 1 = Low wing elements should b	1 = None 2 = Remove 5 = Urgent re-inspection 2 = Medium 3 = High the demolished or removed	local hazards** n due to possible	3 = Urgent support rec collapse	quired
NSPECTION TEAM DATA Signature 2. Signature 3. Signature Name/ Title Name / Title Name / Title	4 = Combina Urgency: ** The follow Access to the	AKEN: A tion of actions 2 and 3 tion of actions 2 and 3 tion 2 and 3 tion 2 and 3 tion 2 areas is proving areas is pro	1 = None 2 = Remove 5 = Urgent re-inspection 2 = Medium 3 = High be demolished or removed hibited and must be blocked	local hazards** n due to possible	3 = Urgent support recollapse	quired
NSPECTION TEAM DATA Signature 2. Signature 3. Signature Name/ Title Name/ Title Name / Title	4 = Combina Urgency: ** The follow Access to the	AKEN: Attion of actions 2 and 3 B 1 = Low wing elements should be following areas is progutilities must be disco	1 = None 2 = Remove 5 = Urgent re-inspection 2 = Medium 3 = High be demolished or removed hibited and must be blocked connected: electricity □	local hazards** in due to possible ലേഗരില രണ് water 🏻	3 = Urgent support recollapse lding before it is gas	uired suppox.b
NSPECTION TEAM DATA Signature 2. Signature 3. Signature Name/ Title Name/ Title Name / Title	4 = Combina Urgency: ** The follow Access to the	AKEN: Attion of actions 2 and 3 B 1 = Low wing elements should be following areas is progutilities must be disco	1 = None 2 = Remove 5 = Urgent re-inspection 2 = Medium 3 = High be demolished or removed hibited and must be blocked connected: electricity □	local hazards** in due to possible ലേഗരില രണ് water 🏻	3 = Urgent support recollapse lding before it is gas	uired suppox.b
Signature 2. Signature 3. Signature Name/ Title Name/ Title Name / Title	4 = Combina Urgency: ** The follow Access to the The following	AKEN: 4 ation of actions 2 and 3 B 1 = Low wing elements should be following areas is pro g utilities must be disc s: * The 1st 1	1 = None 2 = Remove 5 = Urgent re-inspection 2 = Medium 3 = High be demolished or removed	local hazards** n due to possible e whole local water ted lat	3 = Urgent support recollapse Iding before it is gas [] er (in 1982)	puired support
Name/ Title	4 = Combina Urgency: ** The follow Access to the The following	AKEN: 4 ation of actions 2 and 3 B 1 = Low wing elements should be following areas is pro g utilities must be disc s: * The 1st 1	1 = None 2 = Remove 5 = Urgent re-inspection 2 = Medium 3 = High be demolished or removed	local hazards** n due to possible e whole local water ted lat	3 = Urgent support recollapse Iding before it is gas [] er (in 1982)	puired support
	2. ACTION T. 4 = Combina Urgency: ** The follow Access to the The following COMMENT	AKEN: A tion of actions 2 and 3 B 1 = Low wing elements should be following areas is progutilities must be discovered: The latest states and the statest states are statest and the statest s	1 = None 2 = Remove 5 = Urgent re-inspection 2 = Medium 3 = High be demolished or removed	local hazards** In due to possible cubole bui water ted lat	3 = Urgent support recollapse Iding before it is gas [] er (in 1982)	nuired .support
	** The follow Access to the The following COMMENT	AKEN: A tion of actions 2 and 3 B 1 = Low wing elements should be following areas is progrutilities must be discovers: * The 1st 1	1 = None 2 = Remove 5 = Urgent re-inspection 2 = Medium 3 = High be demolished or removed	local hazards** n due to possible e whole local water ted lat	3 = Urgent support recollapse Eding before it is gas er (in 1982). Signature	puired support

Section of the series Section		RAPID ASSESSMENT (1st) DETAILED ASSESSMENT* (2nd)
Street. KBLARADON. No. S. Postal Code. 73/135 Town/Municipality. CHANLE Section No. S. Block No. 13.8. Or Streets surrounding block: 1. KRLARADON. 5. Position of building in block: 1 1=Free 2=Middle (2 opposite sides free) 3=Corner (2 or 3 sides free) DESCRIPTION OF THE BUILDING Number of stories	*The information in	italics need not be filled in during the rapid (1st) assessment
DESCRIPTION OF THE BUILDING Number of stories	Street KRIARADON Section No:5 Block No:2 SKOULA3	No. 6. Postal Code #3135 Town/Municipality CHANIA 138. Or Streets surrounding block: 1. KRIARADON MANDAKA 4 GEORGILAPON 5
Number of stories	Position of building in block:	1=Free 2=Middle (2 opposite sides free) 3=Corner (2 or 3 sides free)
Type of structural system: (see back page) 2 U Usage: (see back page) GROUND STORY DE STORIES DE Soft or weak story (e.g. pilotis, etc) YES NO Irregularity 2 0=None 1= In height 2= In layout 3= Both Number of basements Multi-level foundation YES NO A		
DAMAGE (a) SEVERITY:	Type of structural system: (see ba Soft or weak story (e.g. pilotis, etc)	ck page) 21 Usage: (see back page) GROUND STORY 10 STORIES 10 YES NO X Irregularity 2 0=None 1= In height 2= In layout 3= Both
SHEAR WALLS/ELEV. SHAFT 2 FRAME JOINTS BB BEAMS	Number of basements 4 Muli	i-level foundation YES NOX
BEARING WALLS		1 = None $2 = Slight$ $3 = Moderate - Heavy$ $4 = Severe - Total$ $1 = None$ $2 = Few$ $3 = Few to several$ $4 = Several to many$
Apparent ground problems:	COLUMNS 43 SHEAR V	/alls/elev.shaft 212- frame joints BB beams 318
Apparent ground problems: 2 1=None 2=Settlement 3=Liquefaction 4=Slope moveme 5=Ground fissures 6=Rockfalls 7=Other (explain)		
Section of the sures Section S	ROOF C	HIMNEYS, PARAPETS 32 BUILDING OUT OF PLUMB
D. OVERALL ASSESSMENT FOR USE (See back page for explanations): Safe for use	TT 0	1=None 2=Settlement 3=Liquefaction 4=Slope movement 7=Other (explain)
D. OVERALL ASSESSMENT FOR USE (See back page for explanations): Safe for use	Indirect damage: 1=Nor	ne 2=Pounding to adjacent building 3=Fire 4=Other (explain)
D. OVERALL ASSESSMENT FOR USE (See back page for explanations): Safe for use (GREEN) Unsafe for use (YELLOW) Dangerous for use (RED) The assessment made is: for the whole building: for part of the building: HUMAN LOSSES (if known): Number of deaths D Number of injuries D ACTION TAKEN: 1 = None 2 = Remove local hazards** 3 = Urgent support required 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas COMMENTS: Ground floor: Mosconny constructed in 1960. NSPECTION TEAM DATA		
Safe for use (GREEN) Unsafe for use (YELLOW) The assessment made is: for the whole building: for part of the building: HUMAN LOSSES (if known): Number of deaths	inspected. Exterior - Gro	indistory in a content stories in
The assessment made is: for the whole building: for part of the building: Number of the building: Number of injuries COMMENTS: Ground Floor: Nascona Constructed in 1969. (YELLOW) (RED)	OVERALL ASSESSMENT FO	DR USE (See back page for explanations):
HUMAN LOSSES (if known): Number of deaths		
ACTION TAKEN: 1 = None 2 = Remove local hazards** 3 = Urgent support required 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas COMMENTS: Ground Floor: Hasanna constructed in 1960. 1582	The assessment made is: for the	ne whole building: X for part of the building:
4 = Combination of actions 2 and 3	HUMAN LOSSES (if known):	Number of deaths
** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas COMMENTS: Ground Floor: Masoning constructed in 1960 Ast floor: R-C 1982	21022011 212220111	
Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas COMMENTS: Ground Floor: Hosony constructed in 1960. Ast Floor: R-C 1982	Urgency: 1 = Low	2 = Medium $3 = High$
The following utilities must be disconnected: electricity water gas COMMENTS: Ground Floor: Hospiny constructed in 1960 1st Floor: R-C 1982	and the second s	
ASE Floor: R-C 1982		
ISPECTION TEAM DATA	/st	floor: R-C 'h: 1982
	SPECTION TEAM DATA	
NSPECTION FORM RECEIVED BY: Owner Building manager Other	Signature	



Photo 6: Building at Kriaradon 6 str.

LOCAL AUTHORITY CHANIA PREFECTURE Crew No: STORE CITY OF CHANIA Report No: A	3 .O
INSPECTION FORM: RAPID ASSESSMENT (1st) DETAILED ASSES	SMENT* (2 nd)
*The information in italics need not be filled in during the rapid (1	st) assessment
A. BUILDING LOCATION AND ID Street	Oic.
B. DESCRIPTION OF THE BUILDING	
Number of stories 🗆 Number of apartments 🗆 Area of story (m2, approx.) 🗓 🗓 Year	of construction 1960
Type of structural system: (see back page) 20 Usage: (see back page) GROUND STORY	MO STORIES 10
Soft or weak story (e.g. pilotis, etc) YES □ NO X Irregularity □ 0=None 1= In height 2:	= In layout 3= Both
Number of basements \square Multi-level foundation YES \square NO \square	
	= Severe -Total 4 = Several to many
COLUMNS 40 SHEAR WALLS/ ELEV. SHAFT 00 FRAME JOINTS BO	BEAMS B□
STAIRS DD BEARING WALLS DD INFILL WALLS (mason	ry, ecc) 🐴 🗆
ROOF \Box CHIMNEYS, PARAPETS $\Box\Box$ BUILDING OUT OF PL	UMB B
Apparent ground problems: 2 1=None 2=Settlement 3=Liquefaction 5=Ground fissures 6=Rockfalls 7=Other (explain)	4=Slope movement
Indirect damage: 1=None 2=Pounding to adjacent building 3=Fire 4=Other (exp	olain)
Inspected: Exterior Ground story I Ist story Other stories	
D. OVERALL ASSESSMENT FOR USE (See back page for explanations): Safe for use (GREEN) Unsafe for use (YELLOW) Dangerou (RI	
E. HUMAN LOSSES (if known): Number of deaths \(\square\) Number	er of injuries
F. ACTION TAKEN: 5 1 = None 2 = Remove local hazards** 3 = Urger 5 = Urgent re-inspection due to possible collapse	nt support required
Urgency: \bigcirc 1 = Low 2 = Medium 3 = High	•
** The following elements should be demolished or removed	ń
Access to the following areas is prohibited and must be blocked Access to the	e building
The following utilities must be disconnected: electricity ⋈ water ⋈ gas □	
COMMENTS:	
INSPECTION TEAM DATA	
1. Signature	
Name/ Title	
INSPECTION FORM RECEIVED BY: Owner Building manager Other	
Recipient's Signature Name	Date

INSPECTION FORM:	RAPID ASSESSMENT (1st)	DETAILED ASSESSMENT* (2nd)
*The information in	italics need not be filled in di	uring the rapid (1st) assessment
Street	No. 8Postal Code	T3135 Town/MunicipalityCHANIA
Position of building in block:	1=Free 2=Middle (2 opposite sid	des free) 3=Corner (2 or 3 sides free)
B. DESCRIPTION OF THE BUILL	DING	
		approx.) 120 Year of construction 195
Type of structural system: (see ba	ack page) 20 Usage: (see back page)	GROUND STORY TO STORIES TO
		None 1= In height 2= In layout 3= Both
	ti-level foundation YES NO	
		Indianate Heart 4 - Server Total
C. DAMAGE (a) SEVERITY: (b) EXTENT:		foderate - Heavy 4 = Severe - Total Few to several 4 = Several to many
	74 FOR 184 FOR	RAME JOINTS BIZ BEAMS ZIZ
STAIRS		NFILL WALLS (masonry, ecc) 43
		BUILDING OUT OF PLUMB
Apparent ground problems:		3=Liquefaction 4=Slope movement
5=Ground fissures 6=Rockfalls		
	2 (7.1 (2.5	
Indirect damage: 1=Nor	2 (7.1 (2.5	
75/7	2 (7.1 (2.5	3=Fire 4=Other (explain)
Inspected: Exterior A Grou	ne 2=Pounding to adjacent building und story \boxtimes I^{st} story \square	3=Fire 4=Other (explain) Other stories
Inspected: Exterior Grown	ne 2=Pounding to adjacent building und story A 1story OR USE (See back page for explanations)	3=Fire 4=Other (explain)
Inspected: Exterior A Grou	ne 2=Pounding to adjacent building und story \boxtimes I^{st} story \square	3=Fire 4=Other (explain) Other stories
D. OVERALL ASSESSMENT FO	ne 2=Pounding to adjacent building und story Ist story OR USE (See back page for explanations Unsafe for use (YELLOW)	3=Fire 4=Other (explain) Other stories Dangerous for use (RED)
D. OVERALL ASSESSMENT FO	ne 2=Pounding to adjacent building und story	3=Fire 4=Other (explain) Other stories Dangerous for use (RED)
D. OVERALL ASSESSMENT FO	ne 2=Pounding to adjacent building und story Ist story OR USE (See back page for explanations Unsafe for use (YELLOW)	3=Fire 4=Other (explain)
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the	ne 2=Pounding to adjacent building und story \(\sqrt{1}^{st} \) story \(\sqrt{1} \) OR USE (See back page for explanations \(\text{Unsafe for use} \) (YELLOW) the whole building: \(\sqrt{1} \) for part of the Number of deaths \(\sqrt{1} \sqrt{1} \) 1 = None \(2 = \text{Remove local has} \)	3=Fire 4=Other (explain)
Inspected: Exterior Grow D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the same for the control of the same for the control of the same for the control of the same for t	ne 2=Pounding to adjacent building und story \(\sqrt{1}^{st} \) story \(\sqrt{1} \) OR USE (See back page for explanations \(\text{Unsafe for use} \) (YELLOW) \(\text{to part of the} \) he whole building: \(\sqrt{1} \) for part of the \(\text{Number of deaths} \) \(\sqrt{1} \) = None \(2 = \text{Remove local has} \)	3=Fire 4=Other (explain)
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the same for the sam	ne 2=Pounding to adjacent building und story Ist story □ OR USE (See back page for explanations Unsafe for use (YELLOW) the whole building: □ for part of the Number of deaths □□□ 1 = None 2 = Remove local has 5 = Urgent re-inspection due to 2 = Medium 3 = High	3=Fire 4=Other (explain)
Inspected: Exterior Grow D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the same for the sam	DR USE (See back page for explanations) Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local he 3 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed	3=Fire 4=Other (explain)
Inspected: Exterior Grow D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the same for the sam	ne 2=Pounding to adjacent building und story Ist story □ OR USE (See back page for explanations; Unsafe for use (YELLOW) he whole building: □ for part of the Number of deaths □□□ 1 = None 2 = Remove local he 3 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed	3=Fire 4=Other (explain)
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the same for the sam	ne 2=Pounding to adjacent building and story	3=Fire 4=Other (explain)
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the same for the sam	ne 2=Pounding to adjacent building und story \(\begin{align*} & a	3=Fire 4=Other (explain)
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the same for the sam	DR USE (See back page for explanations; Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local has 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed	3=Fire 4=Other (explain)
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the same for the sam	DR USE (See back page for explanations; Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local has 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed	3=Fire 4=Other (explain)
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the same for the sam	DR USE (See back page for explanations) Unsafe for use (YELLOW) he whole building: for part of the Number of deaths	3=Fire 4=Other (explain)
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the second	DR USE (See back page for explanations) Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None	3=Fire 4=Other (explain)



Photo 7: Building at Kriaradon 8, str.

INSPECTION FORM:	RAPID ASSESSMENT (1st) 🏋	DETAILED ASSESSMENT* (2 nd)
*The information in	italics need not be filled in di	uring the rapid (1st) assessment
Section No:5Block No: 2KRIARADON3	No. 10 Postal Code136 Or Streets surrounding block	T3135 Town/Municipality CHANIA I MANDAKA ORGILADON 5 des free) 3=Corner (2 or 3 sides free)
Visitation in the Control of the Con		ies nee) 5-conter (2 or 5 sides nee)
Type of structural system: (see Soft or weak story (e.g. pilotis, et	er of apartments 🗆 Area of story (m2, back page) 🖟 3 Usage: (see back page)	approx.) □ Signature of construction approx.) □ Signature of GROUND STORY □ STORIES □ □ Signature of Construction approx. Signature of Construction approx
C. DAMAGE (a) SEVERITY: (b) EXTENT:	1 = None 2 = Slight 3 = M I = None 2 = Few 3 = F	oderate - Heavy 4 = Severe -Total Gew to several 4 = Several to many
STAIRS 🗆	BEARING WALLS III III III III III III III III III	
52 (W. 2002) 19 (C. 10 C. 10 C		
Inspected: Exterior 🛭 Gr	one 2=Pounding to adjacent building round story ☑ 1 st story □ FOR USE (See back page for explanations)	Other stories
Inspected: Exterior 🛭 Gr	round story	Other stories
D. OVERALL ASSESSMENT : Safe for use (GREEN)	FOR USE (See back page for explanations) Unsafe for use	Dangerous for use (RED)
D. OVERALL ASSESSMENT: Safe for use (GREEN) The assessment made is: for	FOR USE (See back page for explanations) Unsafe for use (YELLOW) the whole building: for part of the	Other stories Dangerous for use (RED) building:
Inspected: Exterior Gr D. OVERALL ASSESSMENT: Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known):	FOR USE (See back page for explanations) Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None 2 = Remove local has	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required
Inspected: Exterior Gr D. OVERALL ASSESSMENT: Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known): ACTION TAKEN: Gr 4 = Combination of actions 2 and Urgency: Green to the combination of actions 2 and	FOR USE (See back page for explanations) Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None 2 = Remove local has 5 = Urgent re-inspection due to 2 = Medium 3 = High is be demolished or removed	Other stories Dangerous for use (RED) building: Number of injuries Dangerous for use (RED)
Inspected: Exterior Gr D. OVERALL ASSESSMENT: Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known): ACTION TAKEN: Gr 4 = Combination of actions 2 and Urgency: Green to the combination of actions 2 and	FOR USE (See back page for explanations Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None 2 = Remove local had 5 = Urgent re-inspection due to 2 = Medium 3 = High if the demolished or removed	Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required to possible collapse
D. OVERALL ASSESSMENT: Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known): ACTION TAKEN: 4 = Combination of actions 2 and Urgency: 1 = Low ** The following elements should Access to the following areas is p The following utilities must be di COMMENTS:	FOR USE (See back page for explanations Unsafe for use (YELLOW) the whole building: for part of the Number of deaths D 1 = None 2 = Remove local had 5 = Urgent re-inspection due to 2 = Medium 3 = High die be demolished or removed rohibited and must be blocked was sconnected: electricity was	Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required opossible collapse ter gas gas gas
D. OVERALL ASSESSMENT: Safe for use (GREEN) The assessment made is: for the assessmen	FOR USE (See back page for explanations Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None 2 = Remove local has 5 = Urgent re-inspection due to 2 = Medium 3 = High die be demolished or removed	Other stories Dangerous for use (RED) building: Number of injuries Dazards** 3 = Urgent support required possible collapse

BUILDING LOCATION AND Street		DETAILED ASSESSMENT* (2 nd)
BUILDING LOCATION AND	in italics need not be filled in d	uring the rapid (1st) assessment
Street MANDAKA		
E DI 137		F3135 Town/Municipality CHANIA
2 KRIARADON	o:13.6Or Streets surrounding block	k: 1 MANDAKA DRGILADON 5
Position of building in block:	B 1=Free 2=Middle (2 opposite si	ides free) 3=Corner (2 or 3 sides free)
. DESCRIPTION OF THE BUI	ILDING	
Number of stories 🗆 Num	nber of apartments 🖂 Area of story (m2	, approx.) 🗆 Year of construction
Type of structural system: (see	e back page) 🕮 Usage: (see back page	e) GROUND STORY 🗆 STORIES 🗆
Soft or weak story (e.g. pilotis,	etc) YES 🗆 NO 🕱 Irregularity 💆	0=None I=In height 2=In layout 3=Both
Number of basements [] M	Aulti-level foundation YES NO	
DAMAGE (a) SEVERITY:	1 - None 2 - Slight 2 - N	Moderate - Heavy 4 = Severe - Total
	$1 = None \qquad 2 = Sight \qquad 3 = N$ $1 = None \qquad 2 = Few \qquad 3 = N$	
COLUMNS DD SHEAT	R WALLS/ ELEV. SHAFT \(\square\) \(\text{F} \)	RAME JOINTS 🗆 BEAMS 🗆
STAIRS $\Box\Box$		INFILL WALLS (masonry, ecc)
ROOF B		BUILDING OUT OF PLUMB
Apparent ground problems: 5=Ground fissures 6=Rockfal		3=Liquefaction 4=Slope movement
Indirect damage: 2 1=1	None 2=Pounding to adjacent building	3=Fire 4=Other (explain)
	Ground story X 1st story X	
inspected: Exterior	Ground story A 1 story A	Other stories
D. OVERALL ASSESSMENT	FOR USE (See back page for explanations	5):
Safe for use	Unsafe for use	Dangerous for use
(GREEN)	(YELLOW)	(RED)
The assessment made is:	or the whole building: X for part of the	building:
	-	
HUMAN LOSSES (if known)): Number of deaths	Number of injuries
ACTION TAKEN:	1 = None 2 = Remove local h	nazards** 3 = Urgent support required
4 = Combination of actions 2 ar		
Urgency: 1 = Lov	w 2 = Medium 3 = High	
	ald be demolished or removed	
** The following elements shou	prohibited and must be blocked	
** The following elements shou		ater 🗆 gas 🗆
** The following elements show Access to the following areas is The following utilities must be of	disconnected: electricity \square wa	ater 🗆 gas 🗆
** The following elements show Access to the following areas is The following utilities must be comments:	disconnected: electricity wa	ater □ gas □
** The following elements show Access to the following areas is The following utilities must be comments:	disconnected: electricity wa	ater □ gas □
** The following elements shou Access to the following areas is The following utilities must be c	disconnected: electricity wa	ater □ gas □
** The following elements show Access to the following areas is The following utilities must be c	disconnected: electricity wa	ater □ gas □
** The following elements shou Access to the following areas is The following utilities must be c COMMENTS:	disconnected: electricity was	ater gas 3. Signature
** The following elements shou Access to the following areas is The following utilities must be c COMMENTS:	disconnected: electricity was	ater gas 3. Signature



Photo 8: Building at Mandaka 10 str.

LOCAL AUTHORITY CHANGE OFFICE CLTY OF CHANGE		Crew No:
	RAPID ASSESSMENT (1st)	DETAILED ASSESSMENT* (2 nd)
*The information in itali	ics need not be filled in di	uring the rapid (1st) assessment
Section No:5Block No:15.	3Or Streets surrounding block 1.Rのわのら4.GIAMB	OLDAKI (PAPARHGO5
B. DESCRIPTION OF THE BUILDING	and the second s	, approx.) 1280 Year of construction 12935
		GROUND STORY (IG STORIES (IG
	로르겠다면, 그 하다 이 (2007년 - 1912년 - - 1912년 - 1912	0=None 1 = In height 2 = In layout 3 = Both
Number of basements Multi-leve		0-None 1-11 neight 2-11 tayout 3- Both
C. DAMAGE (a) SEVERITY: 1	= None $2 = Slight$ $3 = M$	foderate - Heavy 4 = Severe -Total Few to several 4 = Several to many
COLUMNS DD SHEAR WALL	LS/ELEV. SHAFT	RAME JOINTS 🗆 BEAMS 🗆
STAIRS 🗆	BEARING WALLS 20 I	NFILL WALLS (masonry, ecc)
ROOF Z CHIM		BUILDING OUT OF PLUMB
Apparent ground problems: 5=Ground fissures 6=Rockfalls 7:	1=None 2=Settlement =Other (explain)	3=Liquefaction 4=Slope movement
Indirect damage: 1=None		
TO 100 PM		Other stories
D. OVERALL ASSESSMENT FOR U Safe for use (GREEN) The assessment made is: for the wh	Unsafe for use (YELLOW) Toole building: for part of the	Dangerous for use (RED)
E. HUMAN LOSSES (if known):	Number of deaths □□ᡚ	Number of injuries $\Box\Box$
F. ACTION TAKEN: 2 4 = Combination of actions 2 and 3	1 = None 2 = Remove local h 5 = Urgent re-inspection due to	
	e = Medium 3 = High	
** The following elements should be de-	molished or removed Suppo	rt the chimney
Access to the following areas is prohibite	ed and must be blocked	9
The following utilities must be disconne	cted: electricity wa	ter 🗆 gas 🗆
INSPECTION TEAM DATA		
	2. Signature	3. Signature
Name/ Title	Name/ Title	
INSPECTION FORM RECEIVED BY:	Owner Building manag	ger 🗆 Other 🗆

The is	TION FORM:	RAPID ASSESSME	NT (1st)	DETAILED A	ASSESSMENT (2nd)	X
The th	iformation in i	italics need not be	filled in di	uring the rap	id (1 st) assessme	ent
StreetN Section No:5 2.H.G.QUHG	5Block No:	No. 38 139Or Streets sur V.1.RO.NOS.	rounding block	C 1NEA	XRCHOU	
D. 2200 02444 110	N OF THE BUILD					
		of apartments 🖂 Are				
1.00 PM		ck page) 111 Usage:	20 B 17 19			
		YES □ NO ☒ Irreg i-level foundation YES		0=None 1= In hei	ight 2= In layout 3=	Both
C. DAMAGE (a) SEVERITY: b) EXTENT:	1 = None $2 = Sli1 = None$ $2 = F$		loderate - Heavy Few to several	4 = Severe -Total 4 = Several to m	
COLUMNS	□□ SHEAR W	ALLS/ ELEV. SHAFT		RAME JOINTS	□□ BEAMS	
STAIRS		BEARING WALLS	22 1	NFILL WALLS (masonry, ecc)	
ROOF	2 C	HIMNEYS, PARAPETS	22	BUILDING OUT	OF PLUMB	
Apparent grou	ind problems: {	1 1=None 2=Set 7=Other (explain)			on 4=Slope n	
Indirect dama					er (explain)	
		p=50	2-1.70	_	er (espiani)	
Inspected: E	denor 12 Grou	and story ⊠ 1 st st	ory 💢	Other stories \square		
D. OVERALL Safe for use (GREEN) The assessmen	\searrow	OR USE (See back page for Unsafe for use (YELLOW) the whole building:	for part of the	Dan	gerous for use (RED)	
	SSES (if known):	Number of o	deaths		Number of injuries	
E. HUMAN LOS	KEN:	I = None $2 = F$	Remove local h	azards** 3 =	Urgent support requir	red
F. ACTION TAI	on of actions 2 and 3	5 = Urgent re-in		o possible collapse		
F. ACTION TAI	on of actions 2 and 3					
F. ACTION TAI 4 = Combination Urgency:	on of actions 2 and 3		nspection due t High	o possible collapse		
F. ACTION TAI 4 = Combination Urgency: [1] ** The following	on of actions 2 and 3 $1 = Low$ and elements should b	2 = Medium 3 = 1	nspection due t	o possible collapse		
F. ACTION TAI 4 = Combination Urgency: ** The following Access to the following	on of actions 2 and 3 $1 = Low$ and elements should b	2 = Medium 3 = 1 be demolished or removed hibited and must be blocked	nspection due t	o possible collapse		
F. ACTION TAI 4 = Combination Urgency: [1] ** The following to The following to COMMENTS:	on of actions 2 and 3 1 = Low ng elements should b sollowing areas is prol ntilities must be disco	2 = Medium 3 = 1 be demolished or removed hibited and must be block connected: electricity	nspection due to	o possible collapse	0	
4 = Combination Urgency: ** The following to the followi	on of actions 2 and 3 1 = Low ng elements should b sollowing areas is prol attilities must be disco	2 = Medium 3 = 1 be demolished or removed hibited and must be block connected: electricity	nspection due t	o possible collapse		
F. ACTION TAI 4 = Combination Urgency: ** The following to the followin	on of actions 2 and 3 1 = Low ng elements should b sollowing areas is prol ntilities must be disco	2 = Medium 3 = 1 be demolished or removed hibited and must be blocked onnected: electricity	nspection due t	o possible collapse		
4 = Combination Urgency: ** The following to the followi	on of actions 2 and 3 1 = Low ng elements should b bllowing areas is prol ntilities must be disco	2 = Medium 3 = 1 be demolished or removed hibited and must be blocked onnected: electricity	nspection due t	o possible collapse		
## The following to COMMENTS: NSPECTION TEIL Signature.	on of actions 2 and 3 1 = Low ng elements should b bllowing areas is prol ntilities must be disco	2 = Medium 3 = 1 be demolished or removed hibited and must be blocked onnected: electricity 2. Signature	nspection due t	o possible collapse ter gas 3. Signatur		



Photo 9: Building at Nearchou 38 str.

OFFICE	THORITY CHA			Crew No: Report No: .	2 1	
	PECTION FORM:	RAPID ASSE	SSMENT (1st)	DETAILE	D ASSESSMENT* (2"	5 🗆
*T	he information i	n italics need n	ot be filled in	during the re	apid (1 st) assessn	ient
A. BUILDII Street Section N 2581	NG LOCATION ANI SKOULA 0: 5 Block No	ID 1444 Or Str	Io 17 Postal C eets surrounding b EAUSTON. 4	ode.7313.5 Tow lock: 1Sk AMAPARSEOS	n/Municipality CHA OULA55	N.I.O
	PTION OF THE BUI		Area of story	m² annrov) 115	Year of construction	ngas
	structural system: (see	and a supplied of the state of the supplied of	THE DOLL OF GROWING THE PARTY.			ues 🗆
7.7					height 2= In layout 3	
	of basements \square M			J U-IVONE I-IN	neight 2-11 tayout 5	- Doin
	GE (a) SEVERITY: (b) EXTENT:	1 = None 1 = None	2 = Slight 3	= Moderate - Heavy = Few to several	4 = Severe - Tot $4 = Several to$	
COLUMN	IS 20 SHEAR	R WALLS/ ELEV. SP	HAFT 🗆	FRAME JOINTS	□□ BEAMS	00
STAIRS		BEARING W	ALLS	INFILL WALLS	(masonry, ecc)	20
ROOF		CHIMNEYS, PARA	APETS 🗆	BUILDING OU	T OF PLUMB	
	t ground problems: l fissures 6=Rockfal	1=None s 7=Other (expla			ction 4=Slope	
Indirect	damage: (1) 1=1	None 2=Pounding			Other (explain)	
		round story 🗆	100 Complete			
Safe fo	EN)	FOR USE (See back Unsafe fo (YELLO) r the whole building:	r use DW)	-35-36	angerous for use (RED)	
E. HUMAN	LOSSES (if known)	: Nun	nber of deaths		Number of injuries	
	N TAKEN: 4			al hazards** 3 ue to possible colla	B = Urgent support requ pse	ired
Urgency	: 1 = Low	2 = Medium	3 = High		•	
** The fo	llowing elements shou	d be demolished or re	emoved			
Access to	the following areas is	prohibited and must b	e blocked			
The follow	ving utilities must be d	isconnected: ele	ctricity 🗆	water 🗆 g	gas 🗆	
INSPECTIO	N TEAM DATA					
	ile		e		ture/Title	
INSPECTIO	N FORM RECEIVED	BY: Owner [Building ma	nager 🗆 Oth	er 🗆	
Recipient's	Signature		Name		Date	



Photo 10: Building at Skoula 17 str.

	RAPID ASSESSMENT (1 st) ✓ DETAILED ASSESSMENT* (2 nd)	
*The information in	italics need not be filled in during the rapid (1st) assessme	ent
A. BUILDING LOCATION AND II		
Street SKOULA		MA
Section No: 5Block No:	144Or Streets surrounding block: 1SKOULA	
	FEDRON POLEHISTON 4 ANAPAESEOS 5	
Position of building in block:	1=Free 2=Middle (2 opposite sides free) 3=Corner (2 or 3 sides fr	ree)
B. DESCRIPTION OF THE BUILD	DING	0=1
Number of stories □□ Number	of apartments 🗆 🗓 Area of story (m2, approx.) 🗓 🗓 Year of construction	196
Type of structural system: (see ba	ack page) 🛂 Usage: (see back page) GROUND STORY 📆 STOR	ES 🗆
Soft or weak story (e.g. pilotis, etc)	YES \(\sum \) NO \(\sum \) Irregularity \(\sum \) 0=None I= In height 2= In layout 3=	Both
Number of basements [Mult	i-level foundation YES 🗆 NO 🗆	
DAMAGE (a) SEVEDITY.	1 = None 2 = Slight 3 = Moderate - Heavy 4 = Severe - Total	
C. DAMAGE (a) SEVERITY: (b) EXTENT:	1 = None $2 = Sight$ $3 = Moderate - Heavy$ $4 = Severe - 10ta1 = None$ $2 = Few$ $3 = Few$ to several $4 = Several$ to $n = 10ta$	any
	VALLS/ELEV. SHAFT 🗆 FRAME JOINTS 🛂 BEAMS	
	BEARING WALLS	80
	CHIMNEYS, PARAPETS 🗆 BUILDING OUT OF PLUMB	
Apparent ground problems: 5=Ground fissures 6=Rockfalls	1=None 2=Settlement 3=Liquefaction 4=Slope i 7=Other (explain)	
	7-Other (explain)	
Indirect damage: 1=Non	ne 2=Pounding to adjacent building 3=Fire 4=Other (explain)	
Indirect damage: 1=Non		
Indirect damage: 1=Non Inspected: Exterior Grou	ne 2=Pounding to adjacent building 3=Fire 4=Other (explain)	
Indirect damage: 1=Non Inspected: Exterior Grou D. OVERALL ASSESSMENT FO	ne 2=Pounding to adjacent building 3=Fire 4=Other (explain)	
Indirect damage: 1=Non Inspected: Exterior Grou	ne 2=Pounding to adjacent building 3=Fire 4=Other (explain)	
Indirect damage: 1=Non Inspected: Exterior Grou D. OVERALL ASSESSMENT FO Safe for use	ne 2=Pounding to adjacent building 3=Fire 4=Other (explain)	
Indirect damage: 1=Non Inspected: Exterior Grow D. OVERALL ASSESSMENT FO Safe for use (GREEN)	ne 2=Pounding to adjacent building 3=Fire 4=Other (explain)	
Indirect damage: 1=Non Inspected: Exterior Grow D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is : for the	ne 2=Pounding to adjacent building 3=Fire 4=Other (explain)	
Indirect damage: 1=Non Inspected: Exterior Grow D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is : for the	ne 2=Pounding to adjacent building 3=Fire 4=Other (explain)	
Indirect damage: 1=Non Inspected: Exterior Grow D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the C. HUMAN LOSSES (if known):	ne 2=Pounding to adjacent building 3=Fire 4=Other (explain)	
Indirect damage: 1=Non Inspected: Exterior Grow D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the HUMAN LOSSES (if known): ACTION TAKEN: 4 4 = Combination of actions 2 and 3	ne 2=Pounding to adjacent building 3=Fire 4=Other (explain)	
Indirect damage: 1=Non Inspected: Exterior Grow D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the C. HUMAN LOSSES (if known): C. ACTION TAKEN: 4 4 = Combination of actions 2 and 3 Urgency: 1 = Low	ne 2=Pounding to adjacent building 3=Fire 4=Other (explain)	
Indirect damage: 1=Non Inspected: Exterior Grow D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the C. HUMAN LOSSES (if known): ACTION TAKEN: 4 = Combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should be	The 2=Pounding to adjacent building 3=Fire 4=Other (explain)	IDØ ed
Indirect damage: 1=Non Inspected: Exterior Grow D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the HUMAN LOSSES (if known): 4 = Combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should be Access to the following areas is pro-	The 2=Pounding to adjacent building 3=Fire 4=Other (explain)	IDØ ed
Indirect damage: 1=Non Inspected: Exterior Grow D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the C. HUMAN LOSSES (if known): ACTION TAKEN: 4 = Combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should be	The 2=Pounding to adjacent building 3=Fire 4=Other (explain)	IDØ ed
Indirect damage: 1=Non Inspected: Exterior Grow D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the C. HUMAN LOSSES (if known): 4 = Combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should be Access to the following areas is profit the following utilities must be discorded.	The 2=Pounding to adjacent building 3=Fire 4=Other (explain)	DØ ed
Indirect damage: 1=Non Inspected: Exterior Grow D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the C. HUMAN LOSSES (if known): 4 = Combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should be Access to the following areas is profit the following utilities must be discerted.	The 2=Pounding to adjacent building 3=Fire 4=Other (explain)	DØ red
Indirect damage: 1=Non Inspected: Exterior Grow D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the HUMAN LOSSES (if known): ACTION TAKEN: 4 = Combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should be Access to the following areas is profit the following utilities must be discerted.	The 2=Pounding to adjacent building 3=Fire 4=Other (explain)]]]]BØ red
Indirect damage: 1=Non Inspected: Exterior Grow D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the HUMAN LOSSES (if known): ACTION TAKEN: 4 = Combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should be Access to the following areas is pro The following utilities must be disce COMMENTS:	The 2=Pounding to adjacent building 3=Fire 4=Other (explain)]]]]BØ red
Indirect damage:	The 2=Pounding to adjacent building 3=Fire 4=Other (explain)	IDØ ed

INSPECTION FORM:	RAPID ASSESSMENT (1st)	DETAILED ASSESSMENT* (2 nd)
		uring the rapid (1st) assessment
The injormation in i	iaucs need not be futed in di	uring the ruptu (1) ussessment
A. BUILDING LOCATION AND II	No. 19 Postal Code	73135 Town/Municipality CHANIA.
Section No:5Block No:	1.4.4Or Streets surrounding block	k: 1 SKOULA
2KRIARADON.3f	EFEDRON POLEHISTON 4. ANY	APAFSEOS 5
		ides free) 3=Corner (2 or 3 sides free)
B. DESCRIPTION OF THE BUILD		700
		, approx.) 100 Year of construction 196
		GROUND STORY TO STORIES
		0=None I=In height 2=In layout 3=Both
Number of basements Multi	i-level foundation YES NO	
DAMAGE (a) SEVERITY:	1 = None $2 = Slight$ $3 = None$	Moderate - Heavy 4 = Severe -Total
	1 = None $2 = Few$ $3 = 1$	
COLUMNS BIZ SHEAR W	ALLS/ELEV. SHAFT	RAME JOINTS 22 BEAMS 0
STAIRS 🔲	BEARING WALLS	NFILL WALLS (masonry, ecc) 4B
	HIMNEYS, PARAPETS	2017년 - 11는 - 11일 12일 12일 - 12일
Apparent ground problems: 5=Ground fissures 6=Rockfalls		3=Liquefaction 4=Slope movement
815		
~ · · · · · · · · · · · · · · · · · · ·	0 D 1' - 1 11 11 11 11 11 11 11 11 11 11 11 11	2 - 12 - 1 - 1 - 1 - 1 - 1 - 1 - 1
		3=Fire 4=Other (explain)
	e 2=Pounding to adjacent building and story ⋈ I st story □	6 KW M
Inspected: Exterior Grou	nd story ⊠ 1 st story □	Other stories
Inspected: Exterior Group D. OVERALL ASSESSMENT FO	nd story 1 st story □ PR USE (See back page for explanations	Other stories s):
D. OVERALL ASSESSMENT FO	ond story \(\) \(Other stories S): Dangerous for use
Inspected: Exterior Group D. OVERALL ASSESSMENT FO	nd story 1 st story □ PR USE (See back page for explanations	Other stories s):
D. OVERALL ASSESSMENT FO	nd story \(\sqrt{I}^{st} \) story \(\sqrt{I} \) PR USE (See back page for explanations Unsafe for use (YELLOW)	Other stories Dangerous for use (RED)
D. OVERALL ASSESSMENT FO	ond story \(\) \(Other stories Dangerous for use (RED)
D. OVERALL ASSESSMENT FO	nd story \(\sqrt{I}^{st} \) story \(\sqrt{I} \) PR USE (See back page for explanations Unsafe for use (YELLOW)	Other stories Dangerous for use (RED)
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the control of the c	nd story \(\begin{align*} & alig	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the control of the c	Is story	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the second	PR USE (See back page for explanations Unsafe for use (YELLOW) e whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to 2 = Medium 3 = High	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the state of the sta	Istory	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required to possible collapse
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the state of the sta	PR USE (See back page for explanations Unsafe for use (YELLOW) e whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to 2 = Medium 3 = High e demolished or removed	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required to possible collapse
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should be Access to the following areas is profit the following utilities must be disconsisted.	PR USE (See back page for explanations Unsafe for use (YELLOW) e whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to 2 = Medium 3 = High e demolished or removed chibited and must be blocked	Other stories Dangerous for use (RED) building: Number of injuries Dangerous for use (RED) Lazards** 3 = Urgent support required to possible collapse
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the second	PR USE (See back page for explanations Unsafe for use (YELLOW) e whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to 2 = Medium 3 = High e demolished or removed hibited and must be blocked	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required to possible collapse
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the second	PR USE (See back page for explanations Unsafe for use (YELLOW) e whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to 2 = Medium 3 = High e demolished or removed	Other stories Dangerous for use (RED) building: Number of injuries azzards** 3 = Urgent support required to possible collapse
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should be Access to the following areas is profit The following utilities must be discontinuous and the combination of actions 2 and 3 Urgency: 1 = Low ** The following elements should be Access to the following areas is profit the following utilities must be discontinuous and the combination of the following utilities must be discontinuous and the combination of the following utilities must be discontinuous and the combination of the following utilities must be discontinuous and the combination of the following utilities must be discontinuous and the combination of the following utilities must be discontinuous and the combination of the following utilities must be discontinuous and the combination of the following utilities must be discontinuous and the combination of the following utilities must be discontinuous and the combination of the following utilities must be discontinuous and the combination of the combination of the following areas is profit the following utilities must be discontinuous and the combination of the following areas is profit the following utilities must be discontinuous and the combination of the following areas is profit the following utilities must be discontinuous and the combination of the following areas is profit the following utilities must be discontinuous and the combination of the following areas is profit the combination of th	PR USE (See back page for explanations Unsafe for use (YELLOW) e whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to 2 = Medium 3 = High e demolished or removed	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required to possible collapse
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the second	PR USE (See back page for explanations Unsafe for use (YELLOW) e whole building: 1 = None	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required to possible collapse
D. OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the second	PR USE (See back page for explanations Unsafe for use (YELLOW) e whole building: 1 = None 2 = Remove local h 5 = Urgent re-inspection due to the seed of the	Other stories Dangerous for use (RED) building: Number of injuries azzards** 3 = Urgent support required to possible collapse gas 3. Signature



Photo 11: Building at Skoula 19 str.

INSPECTION FORM:	RAPID ASSESSMENT (1st) 🛛	DETAILED ASSESSMENT* (2 nd)
*The information in	italics need not be filled in di	uring the rapid (1 st) assessment
Section No:5Block No:	No. 24. Postal Code 144. Or Streets surrounding block EFEDROD POLEMISTON4 AN	APAFSEOS5
Position of building in block:	1=Free 2=Middle (2 opposite sid	des free) 3=Corner (2 or 3 sides free)
DESCRIPTION OF THE BUIL	DING	
Number of stories 🗆 Number	er of apartments DB Area of story (m2,	approx.) 220 Year of construction 40
Type of structural system: (see b	pack page) 52 Usage: (see back page)	GROUND STORY (10 STORIES (10
Soft or weak story (e.g. pilotis, etc	e) YES 🗆 NO 💢 Irregularity 🗀 (None I = In height 2= In layout 3= Both
Number of basements Mu	lti-level foundation YES 🗌 NO 🗎	*
DAMAGE (a) SEVERITY: (b) EXTENT:		foderate - Heavy 4 = Severe - Total Few to several 4 = Several to many
COLUMNS 2 SHEAR	WALLS/ ELEV. SHAFT	RAME JOINTS 🗆 BEAMS 🗆
STAIRS 20	BEARING WALLS	NFILL WALLS (masonry, ecc)
ROOF	CHIMNEYS, PARAPETS	BUILDING OUT OF PLUMB
Apparent ground problems:	1=None 2=Settlement	3=Liquefaction 4=Slope moveme
5=Ground fissures 6=Rockfalls		
- · · · · · · · · · · · ·		
Indirect damage: U 1=No	one 2=Pounding to adjacent building	3=Fire 4=Other (explain)
Indirect damage: 1=No	- 10° - 10°	3=Fire 4=Other (explain)
		3=Fire 4=Other (explain)
Inspected: Exterior A Gro	- 10° - 10°	Other stories
Inspected: Exterior A Gro	ound story 🛛 1 st story 🗆	Other stories
D. OVERALL ASSESSMENT F Safe for use (GREEN)	ound story \(\begin{align*} & I^{st} story \end{align*} \] FOR USE (See back page for explanations Unsafe for use	Other stories Dangerous for use (RED)
Inspected: Exterior Group D. OVERALL ASSESSMENT F Safe for use (GREEN) The assessment made is: for	ound story \(\begin{align*} & I^{st} story \end{align*} \] FOR USE (See back page for explanations \(\text{Unsafe for use } \\ (\text{YELLOW}) \end{align*} \] the whole building: \(\begin{align*} & \text{for part of the } \end{align*} \)	Other stories Dangerous for use (RED) building:
D. OVERALL ASSESSMENT F Safe for use (GREEN)	ound story Ist story Use (See back page for explanations Unsafe for use (YELLOW)	Other stories Dangerous for use (RED) building:
D. OVERALL ASSESSMENT F Safe for use (GREEN) The assessment made is: for	ound story I Ist story FOR USE (See back page for explanations Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None 2 = Remove local has	Other stories Dangerous for use (RED) building: Number of injuries DE azards** 3 = Urgent support required
Inspected: Exterior ☐ Gro D. OVERALL ASSESSMENT F Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known): ACTION TAKEN: ② 4 = Combination of actions 2 and Urgency: ② 1 = Low	the whole building: I story Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None 2 = Remove local had 3 5 = Urgent re-inspection due to 2 = Medium 3 = High	Other stories Dangerous for use (RED) building: Number of injuries Dazards** 3 = Urgent support required to possible collapse
Inspected: Exterior Grown Grown Grown Green Gree	the whole building: To repart of the Number of deaths 1 = None 2 = Remove local has 5 = Urgent re-inspection due to 2 = Medium 3 = High	Other stories Dangerous for use (RED) building: Number of injuries Dangerous for use (RED) building: 1
Inspected: Exterior Grown D. OVERALL ASSESSMENT F Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known): ACTION TAKEN: Q 4 = Combination of actions 2 and Urgency: Q 1 = Low ** The following elements should Access to the following areas is property.	the whole building: I story Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None 2 = Remove local has 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed . the story I s	Other stories Dangerous for use (RED) building: Number of injuries Dazards** 3 = Urgent support required opossible collapse tending to collapse s to the ground floor
Inspected: Exterior Grown D. OVERALL ASSESSMENT F Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known): ACTION TAKEN: 4 = Combination of actions 2 and Urgency: 4 = Low ** The following elements should Access to the following areas is property. The following utilities must be discovered.	the whole building: To remove the whole building: To remov	Other stories Dangerous for use (RED) building: Number of injuries Dangerous for use (RED) building: 1
Inspected: Exterior Grown D. OVERALL ASSESSMENT F Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known): ACTION TAKEN: Q 4 = Combination of actions 2 and Urgency: Q 1 = Low ** The following elements should Access to the following areas is pr The following utilities must be dis COMMENTS: ** Ground.	the whole building: The story is to part of the story is the whole building: The story is to part of the story is the whole building: The story is to part of the story is the whole building: The story is to part of the story is the whole building: The story is to part of the story is the story	Other stories Dangerous for use (RED) building: Number of injuries Proposible collapse sending to collapse tending to sollapse set to the ground floor ter gas gas
Inspected: Exterior Grown D. OVERALL ASSESSMENT F Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known): ACTION TAKEN: Q 4 = Combination of actions 2 and Urgency: Q 1 = Low ** The following elements should Access to the following areas is pr The following utilities must be dis COMMENTS: ** Ground.	the whole building: The story is to part of the story is the whole building: The story is to part of the story is the whole building: The story is to part of the story is the whole building: The story is to part of the story is the whole building: The story is to part of the story is the story	Other stories Dangerous for use (RED) building: Number of injuries Proposible collapse tending to collapse tending to ground floor ter gas gas gas Dangerous for use (RED)
Inspected: Exterior Grown D. OVERALL ASSESSMENT F Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known): ACTION TAKEN: Q 4 = Combination of actions 2 and Urgency: Q 1 = Low ** The following elements should Access to the following areas is pr The following utilities must be dis COMMENTS: ** Ground.	the whole building: The story is to part of the story is the whole building: The story is to part of the story is the whole building: The story is to part of the story is the whole building: The story is to part of the story is the whole building: The story is to part of the story is the story	Other stories Dangerous for use (RED) building: Number of injuries Proposible collapse sending to collapse tending to sollapse set to the ground floor ter gas gas
Inspected: Exterior Grown D. OVERALL ASSESSMENT F Safe for use (GREEN) The assessment made is: for HUMAN LOSSES (if known): ACTION TAKEN: Q 4 = Combination of actions 2 and Urgency: Q 1 = Low ** The following elements should Access to the following areas is pr The following utilities must be dis COMMENTS: ** Ground.	the whole building: The story is to part of the story is the whole building: The story is to part of the story is the whole building: The story is to part of the story is the whole building: The story is to part of the story is the whole building: The story is to part of the story is the story	Other stories Dangerous for use (RED) building: Number of injuries Proposible collapse sending to collapse tending to sollapse set to the ground floor ter gas gas
Inspected: Exterior Grown Grown Green Gree	the whole building: I story Unsafe for use (YELLOW) the whole building: I none 2 = Remove local has 5 = Urgent re-inspection due to 2 = Medium 3 = High I be demolished or removed . I none be demolished or removed . I none connected: electricity Was the story I was the story I story I was the whole building: I none 2 = Remove local has a second to the story I none 2 = Remove local has a second to the second	Other stories Dangerous for use (RED) building: Number of injuries Dazards** 3 = Urgent support required or possible collapse tending to collapse s to the ground floor ter gas 3. Signature

LOCAL AUTHORITY CHANIA PREFECTURE Crew No: 3. OFFICE CITY OF CHANIA Report No: 7.
INSPECTION FORM: RAPID ASSESSMENT (1 st) ☐ DETAILED ASSESSMENT* (2 nd) 💢
*The information in italics need not be filled in during the rapid (1st) assessment
A. BUILDING LOCATION AND ID Street
B. DESCRIPTION OF THE BUILDING
Number of stories 3 Number of apartments 3 Area of story (m2, approx.) 220 Year of construction 1960
Type of structural system: (see back page) 52 Usage: (see back page) GROUND STORY 10 STORIES 10
Soft or weak story (e.g. pilotis, etc.) YES \square NO \bowtie Irregularity \square 0=None 1=In height 2=In layout 3=Both Number of basements \square Multi-level foundation YES \square NO \bowtie
C. DAMAGE (a) SEVERITY: $1 = \text{None}$ $2 = \text{Slight}$ $3 = \text{Moderate - Heavy}$ $4 = \text{Severe - Total}$ (b) EXTENT: $1 = \text{None}$ $2 = \text{Few}$ $3 = \text{Few to several}$ $4 = \text{Several to many}$
COLUMNS 22 SHEAR WALLS/ELEV. SHAFT 00 FRAME JOINTS 00 BEAMS 00
STAIRS ZIZ BEARING WALLS ZIZ INFILL WALLS (masonry, ecc)
ROOF \square CHIMNEYS, PARAPETS $\square\square$ BUILDING OUT OF PLUMB \square
Apparent ground problems: 1=None 2=Settlement 3=Liquefaction 4=Slope movement 5=Ground fissures 6=Rockfalls 7=Other (explain)
Indirect damage: 1=None 2=Pounding to adjacent building 3=Fire 4=Other (explain)
Inspected: Exterior A Ground story A 1st story Other stories
D. OVERALL ASSESSMENT FOR USE (See back page for explanations): Safe for use (GREEN) Unsafe for use (YELLOW) Dangerous for use (RED)
The assessment made is: for the whole building: of for part of the building:
E. HUMAN LOSSES (if known): Number of deaths
F. ACTION TAKEN: 1 = None 2 = Remove local hazards** 3 = Urgent support required 5 = Urgent re-inspection due to possible collapse
Urgency: \Box 1 = Low 2 = Medium 3 = High
** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked.
The following utilities must be disconnected: electricity \square water \square gas \square
COMMENTS:
INSPECTION TEAM DATA
1. Signature 2. Signature 3. Signature Name/ Title Name / Title Name / Title
INSPECTION FORM RECEIVED BY: Owner Building manager Other
Recipient's Signature Name Date



Photo 12: Building at Skoula 21 str.

INSPE	CTION FORM:	RAPID ASSESSMENT (1st)	DETAILEDA	SSESSMENT* (2 nd)
*The	information in i	italics need not be filled in	during the rapi	d (1st) assessment
Street	LOCATION AND ID	No. 19 Postal Co	de 33134 Town/M ock: 1SQLQM	funicipalityCHANI) D
		1=Free 2=Middle (2 opposite		
DESCRIPT	TON OF THE BUILD	ING		
		of apartments 2H Area of story (r	n2, approx.) 4BD	Year of construction 1988
		ck page) 21 Usage: (see back pa		
* *		YES NO Irregularity	=22	
		i-level foundation YES \(\simeg \) NO \(\simeg \)		CONTRACTOR
2136162	() CELEBRAY	1 - 37 2 - 07-14 2 -	No. 1	1 - S T.4-3
DAMAGE	(a) SEVERITY: (b) EXTENT:	I = None $Z = Siight 3 = I = None 2 = Few 3 = I = None$	Moderate - Heavy = Few to several	
COLUMNS	B□ SHEAR W	ALLS/ELEV. SHAFT	FRAME JOINTS	1
STAIRS	20	BEARING WALLS	INFILL WALLS (n	100000
ROOF		Control of the Contro	BUILDING OUT O	
TOTAL TOTAL	1200 Paris 1200			
* *	round problems: T ssures 6=Rockfalls	1=None 2=Settlement 7=Other (explain)	Del Control of the Description	n 4=Slope movement
5 Ground II				
T 11 - 4 3-		The Contract of the Contract o		
	mage: 🖾 1=Non	e 2=Pounding to adjacent building	3=Fire 4=Othe	
	mage: 🖾 1=Non	The Contract of the Contract o	3=Fire 4=Othe	
Inspected:	mage: 🗓 1=Non Exterior 💢 Grou	e 2=Pounding to adjacent building and story \(\begin{align*} \begin{align*} \lambda &	3=Fire 4=Other Other stories □	
Inspected:	mage: 1=Non Exterior Grou	e 2=Pounding to adjacent building and story \(\begin{align*} & \begin{align*} & \lambda^{st} \ story \end{align*} \end{align*} \) PR USE (See back page for explanation of the story \(\begin{align*} & \begin	3=Fire 4=Othe Other stories □ ons):	er (explain)
Inspected: D. OVERAL Safe for	mage: 1=Non Exterior Grou LL ASSESSMENT FO	e 2=Pounding to adjacent building and story \(\begin{align*} & \begin{align*} & \lambda^{st} \ story \end{align*} \end{align*} \) PR USE (See back page for explanation of the context o	3=Fire 4=Othe Other stories □ ons):	gerous for use
Inspected:	mage: 1=Non Exterior Grou LL ASSESSMENT FO	e 2=Pounding to adjacent building and story \(\begin{align*} & \begin{align*} & \lambda^{st} \ story \end{align*} \end{align*} \) PR USE (See back page for explanation of the story \(\begin{align*} & \begin	3=Fire 4=Othe Other stories □ ons):	er (explain)
D. OVERAL Safe for (GREEN	mage: A 1=Non Exterior Grou LL ASSESSMENT FO	e 2=Pounding to adjacent building and story \(\sqrt{1}^{st} \) story \(\sqrt{1} \) OR USE (See back page for explanation (YELLOW)	3=Fire 4=Other Other stories ons): Dang	gerous for use
Inspected: D. OVERAL Safe for (GREEN	Exterior Ground	e 2=Pounding to adjacent building and story \(\sqrt{1}^{st} \) story \(\sqrt{1} \) OR USE (See back page for explanation (YELLOW)	3=Fire 4=Othe Other stories □ ons): Dang the building: □	gerous for use (RED)
D. OVERAL Safe for (GREE)	mage: A 1=Non Exterior Grou LL ASSESSMENT FO	e 2=Pounding to adjacent building and story \(\sqrt{1}^{st} \) story \(\sqrt{1} \) OR USE (See back page for explanation (YELLOW)	3=Fire 4=Othe Other stories □ ons): Dang the building: □	gerous for use
Inspected: D. OVERAL Safe for (GREEN The assessm HUMAN I	Exterior	Pounding to adjacent building and story Is story Is story Important Is story Important Is story Important	3=Fire 4=Othe Other stories □ ons): Dang the building: □ 1 hazards** 3 = 1	gerous for use (RED)
D. OVERAL Safe for (GREEN The assessment of the ACTION To the Combine of the Comb	Exterior Ground	Provided to adjacent building and story Ist story Ist story Ist story Implies the last page for explanation Unsafe for use (YELLOW) When whole building: Information for part of the last page for explanation of the last page for explanation use (YELLOW) The whole building: Information for part of the last page for explanation o	3=Fire 4=Othe Other stories □ ons): Dang the building: □ I hazards** 3 = 1 e to possible collapse	gerous for use (RED) Number of injuries Urgent support required
D. OVERAL Safe for (GREEN The assessment of the ACTION To the Combine of the Comb	Exterior Ground	Provided to adjacent building and story Ist story Ist story Ist story Implies the last page for explanation Unsafe for use (YELLOW) When whole building: Information for part of the last page for explanation of the last page for explanation use (YELLOW) The whole building: Information for part of the last page for explanation o	3=Fire 4=Othe Other stories □ ons): Dang the building: □ I hazards** 3 = 1 e to possible collapse	gerous for use (RED) Number of injuries Urgent support required
Inspected: D. OVERAL Safe for (GREE) The assessm HUMAN I ACTION T 4 = Combin Urgency: ** The follo	Exterior	e 2=Pounding to adjacent building and story \(\sqrt{I}^{st} \) story \(\sqrt{I} \) PR USE (See back page for explanation (YELLOW) The whole building: \(\sqrt{I} \) for part of to the whole building: \(\sqrt{I} \) for part of to the story \(\sqrt{I} \) 1 = None \(2 = \text{Remove loca} \) 5 = Urgent re-inspection du	3=Fire 4=Othe Other stories □ ons): Dang the building: □ I hazards** 3 = 1 e to possible collapse	gerous for use (RED) Jumber of injuries Urgent support required The . graved . floor app
Inspected: D. OVERAL Safe for (GREEN The assessm HUMAN I 4 = Combin Urgency: ** The follo Access to the	Exterior	PR USE (See back page for explanation (YELLOW) Is story In the story	3=Fire 4=Othe Other stories □ ons): Dang the building: □ I hazards** 3 = 1 e to possible collapse	gerous for use (RED) Number of injuries DE Urgent support required the graind floor app
Inspected: D. OVERAL Safe for (GREE) The assessm HUMAN I 4 = Combin Urgency: ** The follo Access to the	Exterior	PR USE (See back page for explanation (YELLOW) Is story Unsafe for use (YELLOW) When whole building: I none 2 = Remove loca 5 = Urgent re-inspection du 2 = Medium 3 = High the demolished or removed	3=Fire 4=Othe Other stories □ ons): Dang the building: □ I hazards** 3 = 1 e to possible collapse Lucalls in 1 water □ gas	gerous for use (RED) Tumber of injuries Urgent support required the ground floor app
Inspected: D. OVERAL Safe for (GREE) The assessm HUMAN I 4 = Combin Urgency: ** The followir COMMENT	Exterior	PR USE (See back page for explanation (YELLOW) Is story In the story	3=Fire 4=Othe Other stories Dang the building: N I hazards** 3 = 1 e to possible collapse Lucalls in L water gas	gerous for use (RED) Tumber of injuries Urgent support required the ground floor app
Inspected: D. OVERAL Safe for (GREE) The assessm HUMAN I 4 = Combin Urgency: ** The follo Access to the The followin COMMENT	Exterior Ground	PR USE (See back page for explanation of the whole building: I story Unsafe for use (YELLOW) When whole building: I none 2 = Remove loca 5 = Urgent re-inspection du 2 = Medium 3 = High be demolished or removed United and must be blocked United States Sta	3=Fire 4=Othe Other stories Dang the building: I hazards** 3 = 1 e to possible collapse Lucalls in 1 water gas	gerous for use (RED) Number of injuries DE Urgent support required the graind floor app
Inspected: D. OVERAL Safe for (GREE) The assessm HUMAN I 4 = Combin Urgency: ** The follo Access to the The followin COMMENT	Exterior Ground	PR USE (See back page for explanation of the whole building: Ist story Unsafe for use (YELLOW) When whole building: for part of the story Number of deaths 1 = None	3=Fire 4=Othe Other stories Dang the building: I hazards** 3 = 1 e to possible collapse Lucalls in 1 water gas	gerous for use (RED) Number of injuries DE Urgent support required the graind floor app
Inspected: D. OVERAL Safe for (GREE) The assessm HUMAN I 4 = Combin Urgency: ** The follo Access to the The followin COMMEN	Exterior Grou LL ASSESSMENT FO use N) ment made is: for th COSSES (if known): TAKEN: ation of actions 2 and 3 1 = Low wing elements should be following areas is prolong utilities must be discoursed.	PR USE (See back page for explanation of the Whole building: In the Whole building: In the Whole building: I have a seed of the Whole building of the	3=Fire 4=Othe Other stories Dang the building: I hazards** 3 = 1 e to possible collapse Lucalls in L water gas	gerous for use (RED) Jumber of injuries DE Urgent support required The Syraund Floor app
Inspected: D. OVERAL Safe for (GREEN The assessm HUMAN I ACTION T 4 = Combin Urgency: ** The follo Access to the The followin COMMENT (SPECTION Signature	Exterior Ground	PR USE (See back page for explanation of the whole building: I story Unsafe for use (YELLOW) When whole building: I none 2 = Remove loca 5 = Urgent re-inspection du 2 = Medium 3 = High be demolished or removed United and must be blocked United States Sta	3=Fire 4=Othe Other stories Dang the building: No solution in the building: A solution in the building: A solution in the building: B solution i	gerous for use (RED) Number of injuries DE Urgent support required the ground floor app

OFFICE CITY OF	CHANIA		No:
INSPECTION FORM	I: RAPID ASSESSME	NT (1st) DETA	AILED ASSESSMENT* (2nd)
*The information			he rapid (1st) assessment
2 EROFILIS	No. 166 Or Streets sur 3 MARKORA	4VO.N.	Town/Municipality CHANIA SOLOHOU 3=Corner (2 or 3 sides free)
B. DESCRIPTION OF THE	BUILDING		
Number of stories 🗆 🗖	Number of apartments 23 Are	ea of story (m2, approx.)	430 Year of construction 1938
Type of structural system:	(see back page) 21 Usage:	(see back page) GROU	UND STORY (10 STORIES (10
1 100 000 000 000 000 000 000 000 000 0	tis, etc) YES □ NO ☒ Irre; Multi-level foundation YES		l = In height 2= In layout 3= Both
C. DAMAGE (a) SEVERIT (b) EXTENT		ight $3 = \text{Moderate}$ - $3 = \text{Few to set}$	
COLUMNS 22 SH	EAR WALLS/ ELEV. SHAFT	□□ FRAME JO	ints 22 beams 00
STAIRS 22	BEARING WALLS	□□ INFILL W	ALLS (masonry, ecc) 22
ROOF	CHIMNEYS, PARAPETS	BIZ BUILDIN	IG OUT OF PLUMB
Apparent ground problem 5=Ground fissures 6=Roo			quefaction 4=Slope movement
Indirect damage:	1=None 2=Pounding to adjac	ent building 3=Fire	4=Other (explain)
Inspected: Exterior	Ground story 🛛 1 st si	tory X Other sto	ries 💢
D. OVERALL ASSESSMI	ENT FOR USE (See back page for	or explanations):	
Safe for use (GREEN)	Unsafe for use (YELLOW)		Dangerous for use (RED)
The assessment made is:	for the whole building:	for part of the building:	
E. HUMAN LOSSES (if kno	own): Number of	deaths $\Box\Box\Box$	Number of injuries □□3
F. ACTION TAKEN: 2 4 = Combination of actions		Remove local hazards** aspection due to possible	3 = Urgent support required collapse
9		High	
** The following elements:	should be demolished or removed	Top story	.para.pet
The following utilities must	be disconnected: electricity	□ water □	gas 🗆
comments: Build	ling should not rapet is repla	be given ced or rep	for use till the sourced
	••••••		
INSPECTION TEAM DATA	A 11 A 1 COM A 4 COM A		Standard
Signature Name/ Title			Signature
	<u> </u>	_	200
INSPECTION FORM RECEIV Recipient's Signature		Building manager	Other U



Photo 13: Building at Solomou 19 str.

INSPECTION FORM:	RAPID ASSESSMENT (1st) 💢	DETAILED ASSESSMENT* (2 nd)
*The information in i	italics need not be filled in durin	ng the rapid (1st) assessment
A. BUILDING LOCATION AND ID		
Street	No. 25 Postal Code 331 6.7 Or Streets surrounding block: NARKORA 4 APOK	134. Town/Municipality CHANIA
Position of building in block:	1=Free 2=Middle (2 opposite sides f	free) 3=Corner (2 or 3 sides free)
B. DESCRIPTION OF THE BUILD	1.49154 1.46450	2
		orox.) DSO Year of construction 1985
TO THE STATE OF TH	ck page) ZZ Usage: (see back page)	
	YES □ NO ☒ Irregularity □ 0=No	one I=In height 2=In layout 3=Both
Number of basements Multi	i-level foundation YES \(\square\) NO \(\square\)	
C. DAMAGE (a) SEVERITY: (b) EXTENT:	1 = None 2 = Slight 3 = Moder $I = None$ 2 = Few 3 = Few	rate - Heavy $4 = $ Severe $-$ Total $4 = $ Several $to many$
COLUMNS BIO SHEAR W	ALLS/ELEV. SHAFT 20 FRAM	E JOINTS ZO BEAMS OO
STAIRS BO	BEARING WALLS	LL WALLS (masonry, ecc)
ROOF C	HIMNEYS, PARAPETS	LDING OUT OF PLUMB
Apparent ground problems: 5=Ground fissures 6=Rockfalls		3=Liquefaction 4=Slope movement
Indirect damage: 2 1=Non-	5 170 si	Fire 4=Other (explain)
		iic 4 Outer (explain)
	nd V 15t \(\tag{2}	
Inspected: Exterior & Grou	and story \boxtimes 1 st story \square Other	er stories 🗆
	and story \square 1st story \square Other OR USE (See back page for explanations):	er stories
		Dangerous for use (RED)
D. OVERALL ASSESSMENT FO Safe for use (GREEN)	OR USE (See back page for explanations): Unsafe for use	Dangerous for use (RED)
D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the	OR USE (See back page for explanations): Unsafe for use (YELLOW)	Dangerous for use (RED)
D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the E. HUMAN LOSSES (if known):	PR USE (See back page for explanations): Unsafe for use (YELLOW) e whole building: for part of the buil Number of deaths 1 = None 2 = Remove local hazard	Dangerous for use (RED) ding: Number of injuries 3 = Urgent support required
D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the E. HUMAN LOSSES (if known): F. ACTION TAKEN: 3 4 = Combination of actions 2 and 3	PR USE (See back page for explanations): Unsafe for use (YELLOW) e whole building: for part of the buil Number of deaths 1 = None 2 = Remove local hazard	Dangerous for use (RED) ding: Number of injuries 3 = Urgent support required
D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the E. HUMAN LOSSES (if known): F. ACTION TAKEN: B 4 = Combination of actions 2 and 3 Urgency: B 1 = Low	PR USE (See back page for explanations): Unsafe for use (YELLOW) e whole building: for part of the buil Number of deaths 1 = None	Dangerous for use (RED) ding: Number of injuries ds** 3 = Urgent support required ssible collapse
D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the E. HUMAN LOSSES (if known): F. ACTION TAKEN: B 4 = Combination of actions 2 and 3 Urgency: B 1 = Low ** The following elements should b	PR USE (See back page for explanations): Unsafe for use (YELLOW) e whole building: for part of the build Number of deaths D 1 = None	Dangerous for use (RED) ding: Number of injuries 3 = Urgent support required
D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the E. HUMAN LOSSES (if known): F. ACTION TAKEN: B 4 = Combination of actions 2 and 3 Urgency: B 1 = Low ** The following elements should b	PR USE (See back page for explanations): Unsafe for use (YELLOW) e whole building: for part of the buil Number of deaths	Dangerous for use (RED) ding: Number of injuries ds** 3 = Urgent support required ssible collapse
D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the E. HUMAN LOSSES (if known): F. ACTION TAKEN: B 4 = Combination of actions 2 and 3 Urgency: B 1 = Low ** The following elements should b Access to the following areas is profit The following utilities must be discontent of the following utilities must be discontent.	PR USE (See back page for explanations): Unsafe for use (YELLOW) e whole building: for part of the buil Number of deaths	Dangerous for use (RED) ding: Number of injuries ds** 3 = Urgent support required ssible collapse gas gas
D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the E. HUMAN LOSSES (if known): F. ACTION TAKEN: B 4 = Combination of actions 2 and 3 Urgency: B 1 = Low ** The following elements should b Access to the following areas is prol The following utilities must be disco	PR USE (See back page for explanations): Unsafe for use (YELLOW) e whole building: for part of the buil Number of deaths	Dangerous for use (RED) ding: Number of injuries ds** 3 = Urgent support required ssible collapse
D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the E. HUMAN LOSSES (if known): ACTION TAKEN: B 4 = Combination of actions 2 and 3 Urgency: B 1 = Low ** The following elements should b Access to the following areas is prof The following utilities must be disco	PR USE (See back page for explanations): Unsafe for use (YELLOW) e whole building: for part of the buil Number of deaths	Dangerous for use (RED) ding: Number of injuries ds** 3 = Urgent support required ssible collapse gas gas
D. OVERALL ASSESSMENT FO Safe for use (GREEN) The assessment made is: for the E. HUMAN LOSSES (if known): F. ACTION TAKEN: B 4 = Combination of actions 2 and 3 Urgency: B 1 = Low ** The following elements should b Access to the following areas is prof The following utilities must be disco	PR USE (See back page for explanations): Unsafe for use (YELLOW) e whole building: for part of the buil Number of deaths	Dangerous for use (RED) ding: Number of injuries ds** 3 = Urgent support required ssible collapse gas gas

INSPECTION FORM:	RAPID ASSESSMENT (1st)	DETAILED ASSESSMENT* (2nd)
*The information in	italics need not be filled in a	luring the rapid (1st) assessment
. BUILDING LOCATION AND I		
Street SOLOMOU	No. 25 Postal Cod	e Town/Municipality
2VO.H3	MARKORA 4 A	k: 1. SOLOMOU Pokoronou 5
Position of building in block:	1=Free 2=Middle (2 opposite s	ides free) 3=Corner (2 or 3 sides free)
DESCRIPTION OF THE BUILD		4
		2, approx.) 🗆 Year of construction
Type of structural system: (see b	ack page) 22 Usage: (see back page	e) GROUND STORY BO STORIES DO
Soft or weak story (e.g. pilotis, etc.	YES NO X Irregularity	0=None I=In height 2=In layout 3=Both
Number of basements Mul	ti-level foundation YES 📈 NO 🗆	
DAMAGE (a) SEVERITY: (b) EXTENT:	1 = None 2 = Slight 3 = N I = None 2 = Few 3 = N	Moderate - Heavy 4 = Severe -Total Few to several 4 = Several to many
COLUMNS 22 SHEAR	WALLS/ ELEV. SHAFT 100 F	FRAME JOINTS 40 BEAMS 22
STAIRS 22	BEARING WALLS	INFILL WALLS (masonry, ecc)
ROOF [CHIMNEYS, PARAPETS	BUILDING OUT OF PLUMB
Apparent ground problems:	1=None 2=Settlement	3=Liquefaction 4=Slope movement
5=Ground fissures 6=Rockfalls	7=Other (explain)	
Indirect damage: 2 1=No.	ne 2=Pounding to adjacent building	3=Fire 4=Other (explain)
Inspected: Exterior 🗵 Gro	und story \boxtimes 1 st story \boxtimes	Other stories
D OVERALL ASSESSMENT FO	OR USE (See back page for explanation	e).
	OR USE (See back page for explanation	V.75
Safe for use	Unsafe for use	Dangerous for use
	Date: N. J. S. La	V.75
Safe for use (GREEN)	Unsafe for use (YELLOW)	Dangerous for use
Safe for use (GREEN)	Unsafe for use (YELLOW) the whole building: for part of the	Dangerous for use (RED)
Safe for use (GREEN) The assessment made is: for t	Unsafe for use (YELLOW)	Dangerous for use (RED)
Safe for use (GREEN) The assessment made is: for the distance of the second of the se	Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None 2 = Remove local 1	Dangerous for use (RED) e building: Number of injuries 1 = Urgent support required
Safe for use (GREEN) The assessment made is: for the distance of the second of the se	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local 1	Dangerous for use (RED) e building: Number of injuries hazards** 3 = Urgent support required
Safe for use (GREEN) The assessment made is: for the asse	Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None 2 = Remove local 3 5 = Urgent re-inspection due 2 = Medium 3 = High	Dangerous for use (RED) e building: Number of injuries 1 a Urgent support required to possible collapse
Safe for use (GREEN) The assessment made is: for the description of the description of actions 2 and description of action action of actions 2 and description of action of action of action action action of action	Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None	Dangerous for use (RED) e building: Number of injuries 1 Urgent support required
Safe for use (GREEN) The assessment made is: for the description of the description of actions 2 and description of action action of actions 2 and description of action of action of action action action of action	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths	Dangerous for use (RED) e building: Number of injuries hazards** 3 = Urgent support required to possible collapse
Safe for use (GREEN) The assessment made is: for the session of t	Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None	Dangerous for use (RED) e building: Number of injuries hazards** 3 = Urgent support required to possible collapse ater gas gas
Safe for use (GREEN) The assessment made is: for the session of t	Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None	Dangerous for use (RED) e building: Number of injuries hazards** 3 = Urgent support required to possible collapse ater gas gas
Safe for use (GREEN) The assessment made is: for the session of t	Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None	Dangerous for use (RED) e building: Number of injuries hazards** 3 = Urgent support required to possible collapse ater gas gas
Safe for use (GREEN) The assessment made is: for the the following elements should Access to the following utilities must be discommended.	Unsafe for use (YELLOW) the whole building: for part of the Number of deaths 1 = None	Dangerous for use (RED) e building: Number of injuries hazards** 3 = Urgent support required to possible collapse ater gas gas
Safe for use (GREEN) The assessment made is: for the session of t	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local is 5 = Urgent re-inspection due 2 = Medium 3 = High be demolished or removed	Dangerous for use (RED) e building: Number of injuries hazards** 3 = Urgent support required to possible collapse ater gas gas
Safe for use (GREEN) The assessment made is: for the session of t	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths	Dangerous for use (RED) e building: Number of injuries hazards** 3 = Urgent support required to possible collapse ater gas 3. Signature
Safe for use (GREEN) The assessment made is: for the session of t	Unsafe for use (YELLOW) he whole building: for part of the Number of deaths	Dangerous for use (RED) e building: Number of injuries Number of injuries 1 Signature Name /Title



Photo 14: Building at Solomou 25 str.

The is	TION FORM:	RAPID ASSESSMENT (1st) 🛭	DETAILED ASSESSMENT (2nd)
1100 01	iformation in	italics need not be filled in	during the rapid (1st) assessment
	OCATION AND I		
Street	Block No:	No.27Postal C	ode 73134 Town/Municipality CHANIA lock: 1 SOLOHOU APOKO RONOU 5
Position of buil	ding in block: 🖆	1=Free 2=Middle (2 opposit	e sides free) 3=Corner (2 or 3 sides free)
. DESCRIPTIO	N OF THE BUILI	DING	
Number of stor	ries 🗆 2 Number	r of apartments 🖂 Area of story (m2, approx.) 🗆 95 Year of construction
Type of struct	ural system: (see b	ack page) II Usage: (see back page)	age) GROUND STORY BO STORIES TO
Soft or weak st	ory (e.g. pilotis, etc)	YES□ NO X Irregularity □	0=None 1= In height 2= In layout 3= Both
Number of bas	sements 🗆 Muli	ti-level foundation YES 🗆 NO 🗆	
) SEVERITY: b) EXTENT:	0	= Moderate - Heavy 4 = Severe - Total = Few to several 4 = Several to many
COLUMNS	20 SHEAR V	WALLS/ ELEV. SHAFT	FRAME JOINTS 🖾 BEAMS 🛍
STAIRS		BEARING WALLS	INFILL WALLS (masonry, ecc)
ROOF		CHIMNEYS, PARAPETS	BUILDING OUT OF PLUMB
Apparent grou 5=Ground fissu Indirect dama	res 6=Rockfalls		3=Liquefaction
Inspected: E	- L. L L.	and story \Box I^{st} story \Box	
mspecieu: E.	tierior 42 Gro	dulid story 🗆 1 story 🗆	Other stories 🗆
D. OVERALL	ASSESSMENT FO	OR USE (See back page for explanati	ons):
Safe for use (GREEN)	\boxtimes	Unsafe for use (YELLOW)	Dangerous for use (RED)
The assessmen	t made is: for t	he whole building: 🗵 for part of	the building:
. HUMAN LOS	SSES (if known):	Number of deaths	Number of injuries
. ACTION TAI	KEN: ① on of actions 2 and 3	1 = None 2 = Remove loca 5 = Urgent re-inspection du	0 11 1
	6		
	1 = Low	2 = Medium $3 = High$	
4 = Combination Urgency: 2 ** The following	ng elements should	be demolished or removed	
4 = Combination Urgency: 4 ** The following Access to the fo	ng elements should	be demolished or removed	Tunton []
4 = Combination Urgency: 1 ** The following to the follo	ng elements should ollowing areas is pro ntilities must be disc	be demolished or removed	water □ gas □
4 = Combination Urgency: 1 ** The following to the follow	ng elements should blowing areas is proutilities must be discussionally be a second of the second of	be demolished or removed	water gas gas slightly ast of plumb
4 = Combination Urgency: [1] ** The following to the foll	ng elements should blowing areas is proutilities must be discussionally be a second of the second of	be demolished or removed	water gas sightly out of plumb ofter a short period to
4 = Combination Urgency: [1] ** The following to the foll	ng elements should blowing areas is proutilities must be discussionally be a second of the second of	be demolished or removed	water gas gas slightly art of plumb after a short period to mout



Photo 15: Building at Solomou 27 str.

INSPECTION FORM:	RAPID ASSESSMENT (1 st) ☐ DETAILED ASSESSMENT* (2 nd) ☐
*The information	n italics need not be filled in during the rapid (1st) assessment
Section No:5Block No 2VQ.M.	No. 29 Postal Code. F3134 Town/Municipality CHANIA 167 Or Streets surrounding block: 1 SOLOHOU MARKORA 4 APOKORONOU 5 1=Free 2=Middle (2 opposite sides free) 3=Corner (2 or 3 sides free)
. DESCRIPTION OF THE BU	
	ber of apartments 🗆 Area of story (m2, approx.) 🕮 Year of construction
	back page) 22 Usage: (see back page) GROUND STORY BO STORIES 40
	tc) YES \nearrow NO \square Irregularity \square 0=None 1= In height 2= In layout 3= Both
Number of basements \square \wedge	ulti-level foundation YES \(\square\) NO \(\square\)
c. DAMAGE (a) SEVERITY: (b) EXTENT:	1 = None 2 = Slight 3 = Moderate - Heavy 4 = Severe - Total $1 = None$ 2 = Few 3 = Few to several 4 = Several to many
COLUMNS BO SHEA	WALLS/ELEV. SHAFT 🗆 FRAME JOINTS 💁 BEAMS 🗆
STAIRS	BEARING WALLS □□ INFILL WALLS (masonry, ecc) □□
ROOF \square	CHIMNEYS, PARAPETS $\Box\Box$ BUILDING OUT OF PLUMB \Box
Apparent ground problems: 5=Ground fissures 6=Rockfa	The state of the s
Indirect damage: 1=	
municet unmiger a	
Y	50/4 10 17/45 Ph-90
Inspected: Exterior 🖟	round story \(\sqrt{1} \) 1st story \(\sqrt{1} \) Other stories \(\sqrt{1} \)
	50/4 10 17/45 Ph-90
	round story A 1st story C Other stories C
D. OVERALL ASSESSMENT Safe for use (GREEN)	FOR USE (See back page for explanations): Unsafe for use Dangerous for use
D. OVERALL ASSESSMENT Safe for use (GREEN)	FOR USE (See back page for explanations): Unsafe for use (YELLOW) The whole building: for part of the building:
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for	FOR USE (See back page for explanations): Unsafe for use (YELLOW) The whole building: Number of deaths 1 = None 2 = Remove local hazards** Other stories Dangerous for use (RED) Number of injuries 1 = Urgent support required
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for the assessment	FOR USE (See back page for explanations): Unsafe for use (YELLOW) The whole building: Number of deaths 1 = None 2 = Remove local hazards** 3 = Urgent support required d 3 5 = Urgent re-inspection due to possible collapse
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for the assessment	FOR USE (See back page for explanations): Unsafe for use (YELLOW) The whole building: Number of deaths 1 = None 2 = Remove local hazards** 3 = Urgent support required d3 5 = Urgent re-inspection due to possible collapse 2 = Medium 3 = High d be demolished or removed
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for the assessment	FOR USE (See back page for explanations): Unsafe for use (YELLOW) The whole building: Number of deaths 1 = None 2 = Remove local hazards** 3 = Urgent support required d3 5 = Urgent re-inspection due to possible collapse 2 = Medium 3 = High d be demolished or removed or or other stories Dangerous for use (RED) Number of injuries 3 = Urgent support required d d be demolished or removed or other stories
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for the assessment	FOR USE (See back page for explanations): Unsafe for use (YELLOW) The whole building: Number of deaths 1 = None 2 = Remove local hazards** 3 = Urgent support required d3 5 = Urgent re-inspection due to possible collapse 2 = Medium 3 = High d be demolished or removed or or other stories Dangerous for use (RED) Number of injuries 3 = Urgent support required d d be demolished or removed or other stories
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for the assessment	FOR USE (See back page for explanations): Unsafe for use (YELLOW) The whole building: Number of deaths 1 = None 2 = Remove local hazards** 3 = Urgent support required d3 5 = Urgent re-inspection due to possible collapse 2 = Medium 3 = High d be demolished or removed or or other stories Dangerous for use (RED) Number of injuries 3 = Urgent support required d d be demolished or removed or other stories
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: fo HUMAN LOSSES (if known ACTION TAKEN: B 4 = Combination of actions 2 ar Urgency: B 1 = Low ** The following elements show Access to the following areas is The following utilities must be of COMMENTS:	FOR USE (See back page for explanations): Unsafe for use (YELLOW) The whole building: Number of deaths 1 = None 2 = Remove local hazards** 3 = Urgent support required d3 5 = Urgent re-inspection due to possible collapse 2 = Medium 3 = High d be demolished or removed brohibited and must be blocked sisconnected: electricity water gas gas 4 = Mone day dayned dayned spround floor)
D. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: for the assessment	FOR USE (See back page for explanations): Unsafe for use (YELLOW) The whole building: Number of deaths 1 = None 2 = Remove local hazards** 3 = Urgent support required d3 5 = Urgent re-inspection due to possible collapse 2 = Medium 3 = High d be demolished or removed brohibited and must be blocked sisconnected: electricity water gas gas 4 = Mone day dayned dayned spround floor)

INSPECTION FORM:	RAPID ASSESSMENT (1st)	DETAILED ASSESSMENT* (2"	(b) X
*The information in	italics need not be filled in di	uring the rapid (1st) assessn	ient
BUILDING LOCATION AND I			
treet SOLOMOU.	No.29Postal Code	. F3.134 Town/Municipality CH.	ANIA
ection No:5Block No:	16.7Or Streets surrounding block	c 1 SOLOMBU	
	MARKORA 4 AP		
osition of building in block:	1=Free 2=Middle (2 opposite si	des free) 3=Corner (2 or 3 sides	free)
DESCRIPTION OF THE BUILD	DING	* 1	
Number of stories 🖽 Numbe	r of apartments $\Box \mathbf{B}$ Area of story (m2,	, approx.) ATO Year of construction	n 4980
Type of structural system: (see b	ack page) 22 Usage: (see back page)	GROUND STORY BD STOR	RIES-110
Soft or weak story (e.g. pilotis, etc	YES NO Irregularity	0=None 1= In height 2= In layout 3	= Both
Number of basements A Mul	ti-level foundation YES NO		
DAMAGE (a) SEVERITY: (b) EXTENT:	1 = None 2 = Slight 3 = M I = None 2 = Few 3 = I	Moderate - Heavy $4 = Severe - Tot$ Few to several $4 = Several$ to	al many
330000		#F7.000	
		RAME JOINTS 22 BEAMS	Company Company
STAIRS 🔲		NFILL WALLS (masonry, ecc)	
ROOF [CHIMNEYS, PARAPETS	BUILDING OUT OF PLUMB	
Apparent ground problems: 5=Ground fissures 6=Rockfalls	1=None 2=Settlement	3=Liquefaction 4=Slope	
	10 NTK - 51		
La disease damages VI 1-NT-			
murect damage: (1 1=No.	ne 2=Pounding to adjacent building	3=Fire 4=Other (explain)	
CONTRACTOR AND ADMINISTRACION CONTRACTOR AND ADMINISTRACTOR ADMINISTRACTOR AND ADMINISTRACTOR ADMI			
A PARTICIPATION AND A CONTRACTOR OF THE PARTICIPATION OF THE PARTICIPATI	ne 2=Pounding to adjacent building und story ⊠ I st story ⊠		
Inspected: Exterior 🛭 Gro		Other stories 🗵	
Inspected: Exterior 🛭 Gro	und story ⊠ I st story ⊠	Other stories 🗵	
Inspected: Exterior	und story ⊠ 1st story ⊠ OR USE (See back page for explanations	Other stories 🗵	
inspected: Exterior Gro OVERALL ASSESSMENT FO	und story ⊠ 1st story ⊠ OR USE (See back page for explanations Unsafe for use	Other stories Dangerous for use	
ONERALL ASSESSMENT FOR Safe for use (GREEN)	und story ⊠ 1st story ⊠ OR USE (See back page for explanations Unsafe for use	Other stories Dangerous for use (RED)	
ON OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the safe for the saf	und story	Other stories Dangerous for use (RED)	
Inspected: Exterior Gro OVERALL ASSESSMENT FOR Safe for use (GREEN)	OR USE (See back page for explanations Unsafe for use (YELLOW)	Other stories Dangerous for use (RED)	
Inspected: Exterior Gro OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the thuman losses (if known): ACTION TAKEN:	und story \(\begin{align*} & \begin{align*} & \lambda^{st} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support requ	080
Inspected: Exterior Gro OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the thuman losses (if known): ACTION TAKEN:	und story ⊠ 1st story ⊠ OR USE (See back page for explanations Unsafe for use (YELLOW) he whole building: ☑ for part of the Number of deaths □□□ 1 = None 2 = Remove local h	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support requ	080
Inspected: Exterior Gro OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the theorem for the following formula of the fo	und story \(\begin{align*} & \begin{align*} & \lambda^{st} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support requ	080
Inspected: Exterior Gro OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the thuman losses (if known): ACTION TAKEN: 4 = Combination of actions 2 and the true of true of the true of the true of	und story I** story OR USE (See back page for explanations Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to 2 = Medium 3 = High	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support require possible collapse	OBO nired
Inspected: Exterior Gro O OVERALL ASSESSMENT For Safe for use (GREEN) The assessment made is: for the the following elements should Ground	or USE (See back page for explanations Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support requ o possible collapse	OBO nired
Inspected: Exterior Gro O OVERALL ASSESSMENT For Safe for use (GREEN) The assessment made is: for the the following elements should Ground	Unsafe for use (YELLOW) The whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support requ o possible collapse	OBO nired
ACTION TAKEN: 4 = Combination of actions 2 and the following elements should access to the following areas is proceeded.	Unsafe for use (YELLOW) The whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support requires to possible collapse	OBO nired
Inspected: Exterior Gro OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the three forms and the following areas is profit following utilities must be discomments:	OR USE (See back page for explanations Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to the demolished or removed	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support require opossible collapse	OCO nired
ACTION TAKEN: 1 = Low 1 = Low 1 = following elements should 1 = Comments should 1 = Comments elements e	OR USE (See back page for explanations Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to the death of the demolished or removed to the demolished or removed to the demolished and must be blocked to the demonstration of the demolished or removed to the demolished and must be blocked to the demolished or removed to the demolished to the demolished or removed t	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support require opossible collapse	OCO nired
Inspected: Exterior Gro OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the three forms of the following elements should access to the following areas is profile following utilities must be discommended.	OR USE (See back page for explanations Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to the demolished or removed	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support requ o possible collapse	OCO nired
Inspected: Exterior Gro OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the three following elements of the following areas is profit following utilities must be discomments:	OR USE (See back page for explanations Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed connected: electricity was	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support requ o possible collapse	OCO nired
Inspected: Exterior Gro OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the three forms and the following elements of the following areas is profit following utilities must be disconsected.	OR USE (See back page for explanations Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to 2 = Medium 3 = High be demolished or removed chibited and must be blocked	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support require to possible collapse ater gas	DDO nired
Inspected: Exterior Gro OVERALL ASSESSMENT FOR Safe for use (GREEN) The assessment made is: for the three forms and the following elements of the following areas is profit following utilities must be disconsected.	OR USE (See back page for explanations Unsafe for use (YELLOW) he whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due to the death of the demolished or removed connected: electricity was well as the demolished or removed to the demolished or remo	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support require opossible collapse ater gas 3. Signature	OCO nired



Photo 16: Building at Solomou 29 str.

*The inf	ormation in its		
	oi munion in m	alics need not be filled in di	uring the rapid (1st) assessment
StreetG.I A.E. Section No:7 2N.E.A.P.H	CATION AND ID BOUDA KI	No3Postal Code	73134 Town/Municipality CHANIA. 1 GIABONDAKI
Position of building	ng in block:	1=Free 2=Middle (2 opposite si	des free) 3=Corner (2 or 3 sides free)
DESCRIPTION	OF THE BUILDIN	VG	
Number of stories	s 🖂 Number of	f apartments 3 Area of story (m2	approx.) 🗆 🛛 Year of construction 🗓 🕮
Type of structur	al system: (see back	page) 24 Usage: (see back page)	GROUND STORY DO STORIES DO
		YES NO I Irregularity (1) (evel foundation YES NO X	D=None I=In height 2=In layout 3=Both
DAMAGE (a)	SEVERITY:	1 = None $2 = Slight$ $3 = M$	loderate - Heavy 4 = SevereTotal
			Few to several $4 = Several$ to many
COLUMNS 2	l□ SHEAR WA	LLS/ELEV. SHAFT 🗓 FI	RAME JOINTS 20 BEAMS 30
STAIRS 1	20	BEARING WALLS	NFILL WALLS (masonry, ecc)
ROOF	□ CHI		BUILDING OUT OF PLUMB
		1=None 2=Settlement	7-T impossation 4-Clans management
5=Ground fissure	s 6=Rockfalls	7=Other (explain)	3=Liquefaction 4=Slope movement
D. OVERALL A Safe for use (GREEN)	SSESSMENT FOR	USE (See back page for explanations Unsafe for use (YELLOW)	Dangerous for use (RED)
The assessment n	nade is : for the	whole building: for part of the	building:
HUMAN LOSS	ES (if known):	Number of deaths \(\sigma\)	Number of injuries □□②
ACTION TAKE 4 = Combination		1 = None 2 = Remove local h 5 = Urgent re-inspection due to	•
Urgency:	1 = Low	2 = Medium 3 = High	
** The following	elements should be	demolished or removed	
Access to the follo	wing areas is prohil	pited and must be blocked	
The following util	lities must be discon	nected: electricity wa	ter □ gas □
COMMENTS: .			
CDECTION TEAM	MDATA		
SPECTION TEAD	M DATA	2 Signature	3. Signature

LOCAL AUTHORITY CHANIA PREFECTURE Crew No: 4 OFFICE CITY OF CHANIA Report No: 11 TEL 28210 30138	
INSPECTION FORM: RAPID ASSESSMENT (1 st) DETAILED ASSESSMENT* (2 nd)	
*The information in italics need not be filled in during the rapid (1st) assessment	
A. BUILDING LOCATION AND ID Street	
Position of building in block: 1=Free 2=Middle (2 opposite sides free) 3=Corner (2 or 3 sides free)	
B. DESCRIPTION OF THE BUILDING	
Number of stories 🗆 Number of apartments 🗆 Area of story (m2, approx.) 🗆 🗗 Year of construction	12
Type of structural system: (see back page) 21 Usage: (see back page) GROUND STORY 10 STORIES 10	
Soft or weak story (e.g. pilotis, etc) YES \(\subseteq \) NO \(\subseteq \) Irregularity \(\mathbf{O} \) 0=None \(1 = \text{In height } 2 = \text{In layout } 3 = \text{Both} \)	
Number of basements Multi-level foundation YES NO	
C. DAMAGE (a) SEVERITY: $1 = \text{None}$ $2 = \text{Slight}$ $3 = \text{Moderate - Heavy}$ $4 = \text{Severe - Total}$ (b) EXTENT: $1 = \text{None}$ $2 = \text{Few}$ $3 = \text{Few to several}$ $4 = \text{Several to many}$	
COLUMNS 2B SHEAR WALLS/ELEV. SHAFT CO FRAME JOINTS 2B BEAMS BB	
STAIRS 22 BEARING WALLS 🗆 INFILL WALLS (masonry, ecc)	
ROOF \square CHIMNEYS, PARAPETS $\square\square$ BUILDING OUT OF PLUMB \square	
Apparent ground problems: 1=None 2=Settlement 3=Liquefaction 4=Slope movement 5=Ground fissures 6=Rockfalls 7=Other (explain)	
Indirect damage: 1=None 2=Pounding to adjacent building 3=Fire 4=Other (explain)	
Inspected: Exterior A Ground story A 1st story A Other stories	
	7
D. OVERALL ASSESSMENT FOR USE (See back page for explanations):	
Safe for use (GREEN) Unsafe for use (YELLOW) Dangerous for use (RED)	
The assessment made is: for the whole building: X for part of the building:	
E. HUMAN LOSSES (if known): Number of deaths	
F. ACTION TAKEN: 1 = None 2 = Remove local hazards** 3 = Urgent support required 5 = Urgent re-inspection due to possible collapse	
4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse	
4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: 1 = Low 2 = Medium 3 = High	
4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed	
4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked	
4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas COMMENTS:	
4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: 1 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas COMMENTS:	

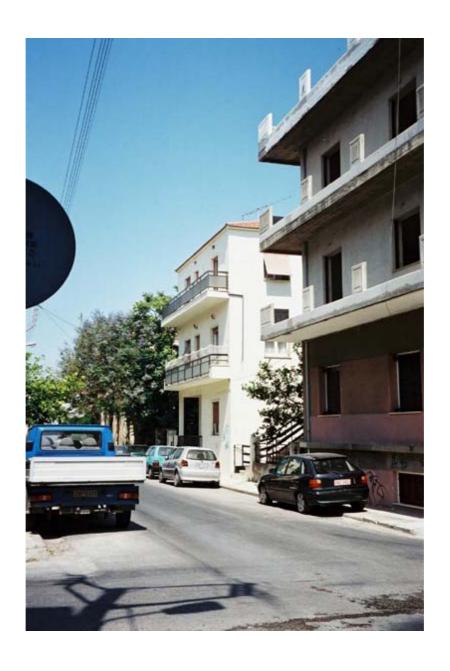


Photo 17: Building at Giamboudaki 3 str.

INSPE	CTION FORM:	RAPID ASSESSMENT (1st)	DETAILED	ASSESSMENT* (2 nd)]
*The	information in it	alics need not be filled t	in during the ra	pid (1 st) assessmen	t
	LOCATION AND ID	*			
Street	GIAMBOUDAK	No 5 Postal	Code F3134 Town	Municipality CHAN	JIA
Section No:		OGOr Streets surrounding	block: 1G.I.F.	AMBOUDAKI	
Position of b	uilding in block:	1=Free 2=Middle (2 oppos	site sides free) 3=	Corner (2 or 3 sides free))
DESCRIPT	ION OF THE BUILDI	NG		· ·	
Number of s	tories 🖾 Number o	f apartments 3 Area of story	(m2, approx.) 120	Year of construction	19
Type of stru	ctural system: (see back	k page) 21 Usage: (see back	page) GROUND S'	TORY TO STORIES	DO
		YES NO X Irregularity			oth
		level foundation YES NO			
DAMACE	(a) SEVERITY:	1 = None 2 = Slight	3 = Moderate - Heavy	4 = Severe -Total	
DAMAGE			3 = Few to several		y
COLUMNS	BO SHEAR WA	ALLS/ELEV. SHAFT ZC	FRAME JOINTS	Ø□ BEAMS Ø	ПП
STAIRS		BEARING WALLS			
		IMNEYS, PARAPETS			
ROOF	L) CH	IIVINE 15, PARAPETS L.	BUILDING OU	OF PLUMB	7.1
5=Ground fis Indirect da	0.004	1=None 2=Settlement 7=Other (explain) 2=Pounding to adjacent buildi d story X	ing 3=Fire 4=Ot	ther (explain)	
5=Ground fis Indirect da Inspected:	ssures 6=Rockfalls mage: 1=None Exterior Groun	7=Other (explain)	ing 3=Fire 4=Ot Other stories [ther (explain)	
5=Ground fis Indirect da Inspected:	ssures 6=Rockfalls mage: 1=None Exterior Groun LL ASSESSMENT FOR	7=Other (explain)	ing 3=Fire 4=Ot Other stories [ther (explain)	
5=Ground fis Indirect dan Inspected: D. OVERAL Safe for u (GREEN	ssures 6=Rockfalls mage: 1=None Exterior Groun LASSESSMENT FOR	7=Other (explain)	other stories Cations):	ther (explain)	
5=Ground fis Indirect dat Inspected: D. OVERAI Safe for t (GREEN The assessm	ssures 6=Rockfalls mage: 1=None Exterior Groun LASSESSMENT FOR	7=Other (explain)	of the building:	ther (explain)]
5=Ground fis Indirect das Inspected: D. OVERAI Safe for t (GREEN The assessm HUMAN L ACTION T	ssures 6=Rockfalls mage: 1 1=None Exterior Groun LASSESSMENT FOR use 0) ent made is: for the OSSES (if known):	7=Other (explain)	of the building: ocal hazards** 3=Fire 4=Ot Other stories Da ocal hazards** 3	ingerous for use (RED) Number of injuries	
5=Ground fis Indirect das Inspected: D. OVERAI Safe for t (GREEN The assessm HUMAN L ACTION T	ssures 6=Rockfalls mage: 1 1=None Exterior Groun LLASSESSMENT FOR use 0) ent made is: for the OSSES (if known): AKEN: 5	7=Other (explain)	of the building: ocal hazards** 3=Fire 4=Ot Other stories Da ocal hazards** 3	ingerous for use (RED) Number of injuries	
5=Ground fis Indirect dat Inspected: D. OVERAL Safe for the (GREEN) The assessment HUMAN L ACTION T 4 = Combinat Urgency:	ssures 6=Rockfalls mage: 1 1=None Exterior Groun LASSESSMENT FOR use OSSES (if known): AKEN: 3 tion of actions 2 and 3 1 = Low	7=Other (explain)	of the building: cal hazards** 3 due to possible collaps	ingerous for use (RED) Number of injuries Urgent support required se	
5=Ground fis Indirect dat Inspected: D. OVERAL Safe for the GREEN The assessm HUMAN L ACTION T 4 = Combinat Urgency: ** The follow	ssures 6=Rockfalls mage: 1 1=None Exterior Groun LL ASSESSMENT FOR use OSSES (if known): AKEN: 5 ution of actions 2 and 3 1 = Low wing elements should be	7=Other (explain)	of the building: ocal hazards** 3 due to possible collaps	ngerous for use (RED) Number of injuries Urgent support required se	
5=Ground fis Indirect das Inspected: D. OVERAL Safe for the GREEN The assessman HUMAN L ACTION T 4 = Combinat Urgency: ** The follow Access to the	ssures 6=Rockfalls mage: 1 1=None Exterior Groun LL ASSESSMENT FOR use OSSES (if known): AKEN: 5 ution of actions 2 and 3 1 = Low wing elements should be	7=Other (explain)	of the building: coal hazards** 3 due to possible collaps	ngerous for use (RED) Number of injuries Urgent support required se	
5=Ground fis Indirect das Inspected: D. OVERAL Safe for the GREEN The assessman HUMAN L ACTION THE 4 Combines Urgency: ** The following the f	ssures 6=Rockfalls mage: 1 1=None Exterior Groun L ASSESSMENT FOR the control of the control o	7=Other (explain)	of the building: cal hazards** 3 due to possible collaps water ga	ngerous for use (RED) Number of injuries Urgent support required se	
5=Ground fis Indirect das Inspected: D. OVERAL Safe for the GREEN The assessmann HUMAN L ACTION T 4 = Combines Urgency: ** The following The following	ssures 6=Rockfalls mage: 1 1=None Exterior Groun L ASSESSMENT FOR the control of the control o	7=Other (explain)	of the building: cal hazards** 3 due to possible collaps water ga	ngerous for use (RED) Number of injuries Urgent support required se	
5=Ground fis Indirect das Inspected: D. OVERAL Safe for the GREEN The assessmanth ACTION The 4 = Combination Urgency: ** The following Access to the Commentation of	ssures 6=Rockfalls mage: 1 1=None Exterior Groun LASSESSMENT FOR the control of the control of the control of actions 2 and 3 1 = Low the control of the	7=Other (explain)	of the building: cal hazards** 3 due to possible collaps water ga	ngerous for use (RED) Number of injuries Urgent support required se	
5=Ground fis Indirect das Inspected: D. OVERAL Safe for the GREEN The assessment of the Action The Combines Urgency: ** The following Access to the The following COMMENT ONSPECTION THE SECTION THE	ssures 6=Rockfalls mage: 1 1=None Exterior Groun LASSESSMENT FOR use OSSES (if known): AKEN: 5 tion of actions 2 and 3 1 = Low wing elements should be following areas is prohi g utilities must be discor	7=Other (explain)	other stories other stories ations): Da of the building: cal hazards** 3 due to possible collaps water ga bosement construct si 2000	Number of injuries Urgent support required se Led: 1970(unfinished.).	

INSPECTION FORM:	RAPID ASS	ESSMENT (1 st)	DETAILED A	ASSESSMENT* (2 nd)	A
*The information	in italics need i	not be filled in	during the rap	id (1st) assessme	ent
BUILDING LOCATION A Street G.I.A.U.B.O Section No: T. Block 2 NEARCHOU	ND ID HDAK!or St No: 306or St 3SEAKIAN	No5Postal Co treets surrounding bl	ode.73.134 Town/ ock: 1G.T.A KRITOVOULI.D	Municipality CHA.	NIA
Position of building in block:	1=Free 2	2=Middle (2 opposite	e sides free) 3=0	Corner (2 or 3 sides fr	ee)
DESCRIPTION OF THE B	UILDING				
Number of stories 🗆 Ni	umber of apartments \square	3 Area of story (m2, approx.) 120	Year of construction	419
Type of structural system: (see back page) 20	Usage: (see back pa	age) GROUND ST	ORY TO STORE	es 10
Soft or weak story (e.g. piloti	s, etc) YES 🗆 NO 🔀	Irregularity 2	0=None 1= In hei	ight 2= In layout 3=	Both
Number of basements 4					
		0 00 11 0	36.1		
DAMAGE (a) SEVERITY (b) EXTENT:		11 (1 (1 (1 (1 (1 (1 (1 (1 (1	= Moderate - Heavy = Few to several	4 = Severe $-$ Total $4 = $ Several to m	
20	AR WALLS/ ELEV. S		FRAME JOINTS		_
	BEARING V				43
			INFILL WALLS (Text hereby. The first	
	CHIMNEYS, PAR	APETS $\Box\Box$	BUILDING OUT	OF PLUMB	
Apparent ground problems: 5=Ground fissures 6=Rock		2=Settlement ain)		on 4=Slope n	
Indirect damage:	=None 2=Pounding	to adjacent building	g 3=Fire 4=Oth	ner (explain)	
	400-2	Land and			
Indirect damage: Inspected: Exterior	=None 2=Pounding	Land and			
	Ground story 💢	1st story ⊠	Other stories		
Inspected: Exterior 🛛	Ground story 💢	l st story ⊠ k page for explanation	Other stories 🔀		
Inspected: Exterior X	Ground story X	l st story ⊠ k page for explanation	Other stories 🔀		
O. OVERALL ASSESSMEN	Ground story X NT FOR USE (See bac Unsafe for	l st story ⊠ k page for explanation	Other stories 🔀	ngerous for use	
O. OVERALL ASSESSMEN	Ground story X NT FOR USE (See bac Unsafe for	l st story X k page for explanation use OW)	Other stories 🔀	ngerous for use	
O. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is:	Ground story X T FOR USE (See bac Unsafe for (YELL) for the whole building	k page for explanation use OW) for part of	Other stories ons): Dan the building:	ogerous for use (RED)	
O. OVERALL ASSESSMEN Safe for use (GREEN)	Ground story X T FOR USE (See bac Unsafe for (YELL) for the whole building	l st story X k page for explanation use OW)	Other stories ons): Dan the building:	ngerous for use	
OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: HUMAN LOSSES (if know	Ground story X NT FOR USE (See bac Unsafe for (YELL) for the whole building	k page for explanation use OW) for part of mber of deaths	Other stories Ons): Dan the building:	ngerous for use (RED) Number of injuries	
OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: HUMAN LOSSES (if know ACTION TAKEN:	Ground story X NT FOR USE (See bac Unsafe for (YELL) for the whole building vn): Nu 1 = None	k page for explanation or use OW) for part of mber of deaths 2 = Remove loca	Other stories Ons): Dan the building:	ngerous for use (RED) Number of injuries Urgent support requir	
OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: HUMAN LOSSES (if know ACTION TAKEN:	Ground story X VT FOR USE (See back Unsafe for (YELL) for the whole building Vn): Num 1 = None and 3 5 = Urg	k page for explanation use OW) for part of mber of deaths 2 = Remove location death re-inspection death	Other stories Dan the building:	ngerous for use (RED) Number of injuries Urgent support requir	
Inspected: Exterior O. OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: HUMAN LOSSES (if know ACTION TAKEN: 4 = Combination of actions 2 Urgency: 1 = L	Ground story X NT FOR USE (See back Unsafe for (YELL) for the whole building yn): Num 1 = None and 3 5 = Urg ow 2 = Medium	k page for explanation use OW) for part of mber of deaths 2 = Remove location du 3 = High	Other stories ons): Dan the building: Il hazards** 3 = ne to possible collapse	ngerous for use (RED) Number of injuries Urgent support requires	
Inspected: Exterior OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: HUMAN LOSSES (if known actions 2) 4 = Combination of actions 2 Urgency: 1 = L ** The following elements shown actions 2	Ground story In the Wilder of the whole building on the whole buil	k page for explanation or use OW) for part of the for part of the formula of deaths are part of the formula of	Other stories Ons): Dan the building: I hazards** 3 = 10 to possible collapse	ngerous for use (RED) Number of injuries Urgent support requires	DDO)
COVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: HUMAN LOSSES (if know ACTION TAKEN: 4 = Combination of actions 2 Urgency: 1 = L ** The following elements shadcess to the following areas	Ground story X VT FOR USE (See back Unsafe for (YELL) for the whole building vn): 1 = None and 3	k page for explanation (a) which is the page for explanation (b) which is the page for explanation (b) which is the page for explanation (c) which	Other stories ons): Dan the building: I hazards** 3 = 1 to possible collapse	ngerous for use (RED) Number of injuries Urgent support requires	DDO)
Inspected: Exterior O OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: HUMAN LOSSES (if know ACTION TAKEN: 4 = Combination of actions 2 Urgency:	Ground story In the Whole building of the whole building on the Wh	k page for explanation or use OW) for part of mber of deaths 2 = Remove located gent re-inspection duting a High removed	Other stories Ons): Dan the building: all hazards** 3 = ne to possible collapse water gas	ngerous for use (RED) Number of injuries Urgent support requires	DDO ed
COVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: HUMAN LOSSES (if know ACTION TAKEN: 4 = Combination of actions 2 Urgency: 1 = L 1 = The following elements shadcess to the following areas The following utilities must be	Ground story In the Whole building of the whole building on the Wh	k page for explanation or use OW) for part of mber of deaths 2 = Remove located gent re-inspection duting a High removed	Other stories Ons): Dan the building: all hazards** 3 = ne to possible collapse water gas	ngerous for use (RED) Number of injuries Urgent support requires	DDO ed
OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: HUMAN LOSSES (if know ACTION TAKEN: 4 = Combination of actions 2 Urgency:	Ground story In the Whole building of the whole building on the Wh	k page for explanation or use OW) for part of mber of deaths 2 = Remove located gent re-inspection duting a High removed	Other stories Ons): Dan the building: all hazards** 3 = ne to possible collapse water gas	ngerous for use (RED) Number of injuries Urgent support requires	DDO ed
Inspected: Exterior OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: HUMAN LOSSES (if know ACTION TAKEN: 4 = Combination of actions 2 Urgency: 1 = L ** The following elements shadcess to the following areas The following utilities must be COMMENTS: *	Ground story In the Whole building of the whole building on the Wh	k page for explanation or use OW) for part of mber of deaths 2 = Remove located gent re-inspection duting a High removed	Other stories Ons): Dan the building: all hazards** 3 = ne to possible collapse water gas	ngerous for use (RED) Number of injuries Urgent support requires	DDO ed
Inspected: Exterior OVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: HUMAN LOSSES (if know ACTION TAKEN: 4 = Combination of actions 2 Urgency: 1 = L ** The following elements shad access to the following areas The following utilities must be COMMENTS: *	Ground story Trong USE (See back Unsafe for (YELL) for the whole building who): 1 = None and 3	k page for explanation or use OW) for part of mber of deaths 2 = Remove located and the pagent re-inspection duting a High removed be blocked	Other stories X ons): Dan the building: If the	ngerous for use (RED) Number of injuries Urgent support requires	DDO)
COVERALL ASSESSMENT Safe for use (GREEN) The assessment made is: HUMAN LOSSES (if know ACTION TAKEN: 4 = Combination of actions 2 Urgency: 1 = L ** The following elements shadcess to the following areas	Ground story X VT FOR USE (See bac Unsafe for (YELL) for the whole building on): 1 = None and 3 5 = Urg ow 2 = Medium ould be demolished or is prohibited and must be disconnected: e disconnected: electron Plant 2 and 2 and 2 and 3 and	k page for explanation or use OW) for part of mber of deaths 2 = Remove located gent re-inspection duting a High removed	Other stories ons): Dan the building: I hazards** 3 = ne to possible collapse water gas led in 1973	ngerous for use (RED) Number of injuries Urgent support requires]]]]OO)



Photo 18: Building at Giamboudaki 5 str.

	INSPECTION FORM:	RAPID ASSESSI	MENT (1st)	DETAILED ASSES	SMENT* (2 nd)
140	*The information in	italics need not	be filled in a	luring the rapid (I	st) assessment
BII	ILDING LOCATION AND I	D	-		
Stre	et GIANBOUD	AK.I			
Sect	tion No:FBlock No: KRITOBOULIDOU 3	30Or Streets	surrounding bloc	k: 1. GIAMBOU ANNARI-PSYLAKI 5	DAKI
	ition of building in block:				
DE	SCRIPTION OF THE BUIL	DING			
A	mber of stories $\Box 2$ Number	1000 CO	Area of story (m2	2. approx.) 1120 Year	of construction 19H
	pe of structural system: (see b	1 The Laboratory of the Control of t		A-577 - A	
	t or weak story (e.g. pilotis, etc				
	mber of basements 🗆 Mul	A THE SAME ASSESSED TO SAME AND A SAME ASSESSED.	SULPH STATE OF THE		•
				follows Warms 4	- S T1
. DA	AMAGE (a) SEVERITY: (b) EXTENT:	$1 = None \qquad 2 = 1 = None \qquad 2$			= Severe -Total = Several to many
COI	LUMNS DU SHEAR	WALLS/ ELEV. SHAF	T 🗆 🗆 F	RAME JOINTS	BEAMS ALL
STA	etre s	BEARING WALI		INFILL WALLS (mason	ry, ecc) 20
ROO		CHIMNEYS PARAPE		BUILDING OUT OF PL	
2773 500					
	parent ground problems: Ground fissures 6=Rockfalls		Settlement	3-Liquetaction	4=Slope movement
Y	irect damage: 1=No				
ina	irect damage: 1-100		diagont building	2-Fine 4-Other (over	Join
	irect unimager — 1 110	ne 2=Pounding to ac	djacent building	3=Fire 4=Other (exp	lain)
Insp	(21.54)	ne 2=Pounding to ac und story \(\overline{\pi}\) \(I\)	20 2000	594	lain)
Insp	(21.54)	1300000	20 2000	594	lain)
	(21.54)	und story 🛛 1	st story 🛚	Other stories	lain)
D. (pected: Exterior 🛛 Gro	und story 🛛 1	ge for explanation	Other stories	
D. 0	pected: Exterior	or USE (See back pag	ge for explanation	Other stories s):	s for use
D. C	OVERALL ASSESSMENT FOR Safe for use (GREEN)	OR USE (See back pag Unsafe for us (YELLOW)	ge for explanation	Other stories S): Dangerous (RE	s for use
D. C	OVERALL ASSESSMENT FOR Safe for use (GREEN)	OR USE (See back pag	ge for explanation	Other stories S): Dangerous	s for use
D. C	DVERALL ASSESSMENT FOR Safe for use (GREEN) e assessment made is: for the same for	OR USE (See back pag Unsafe for use (YELLOW) the whole building:	ge for explanation for part of the	Other stories S): Dangerous (RE) c building:	s for use
D. C	DVERALL ASSESSMENT FOR Safe for use (GREEN) e assessment made is: for the summan LOSSES (if known):	OR USE (See back pag Unsafe for use (YELLOW) he whole building:	ge for explanation for part of the	Other stories Dangerous (RE e building: Number	s for use
The . HU	DVERALL ASSESSMENT FOR Safe for use (GREEN) e assessment made is: for the summan LOSSES (if known):	und story	ge for explanation for part of the for deaths	Other stories S): Dangerous (RE) c building:	s for use
D. () S. The	DVERALL ASSESSMENT FOR Safe for use (GREEN) e assessment made is: for the summan LOSSES (if known):	und story OR USE (See back pag Unsafe for use (YELLOW) he whole building: Number 1 = None 2 3 5 = Urgent r	ge for explanation for part of the for deaths	Other stories Dangerous (RE e building: Numbe	s for use
The . HU . AC 4 = Ur;	DVERALL ASSESSMENT FOR Safe for use (GREEN) e assessment made is: for the summan LOSSES (if known): CTION TAKEN: Combination of actions 2 and gency: 1 = Low	und story	ge for explanation for part of the for deaths Remove local re-inspection due is = High	Other stories Dangerous (RE e building: Numbe nazards** 3 = Urgen to possible collapse	s for use DD
D. (C. S. The S. AC. 4 = Ur; ** 7	DVERALL ASSESSMENT FOR Safe for use (GREEN) e assessment made is: for the summan LOSSES (if known): CTION TAKEN: Combination of actions 2 and in the summan LOSSES (if known):	und story A OR USE (See back pag Unsafe for use (YELLOW) he whole building: A Number 1 = None 2 3 5 = Urgent r 2 = Medium 3 be demolished or remo	for part of the of deaths = Remove local 1 e-inspection due = High ved	Other stories S): Dangerous (RE) e building: Numberous (RE) Numberous (RE) Numberous (RE)	s for use (D)
D. (C. S. Theo. HU. A. A. C. A	DVERALL ASSESSMENT FOR Safe for use (GREEN) e assessment made is: for the summan LOSSES (if known): CTION TAKEN: Combination of actions 2 and gency: 1 = Low The following elements should	und story \(\overline{\text{V}} \) OR USE (See back page Unsafe for use (YELLOW) he whole building: \(\overline{\text{V}} \) Number 1 = None 2 3 5 = Urgent r 2 = Medium 3 be demolished or removabilitied and must be blocked.	ge for explanation e for part of the of deaths = Remove local 1 e-inspection due s = High ved	Other stories S): Dangerous (RE) e building: Numberous (RE) Numberous (RE) Numberous (RE)	s for use (D)
D. (C. S. The ACC. The	DVERALL ASSESSMENT FOR Safe for use (GREEN) e assessment made is: for the substitution of actions 2 and gency: The following elements should sess to the following areas is proposed to following utilities must be disconsisted.	on USE (See back page Unsafe for use (YELLOW) the whole building: Number 1 = None 2 3 5 = Urgent r 2 = Medium 3 be demolished or remorbibited and must be bleconnected: electric	for part of the of deaths \(\subseteq \text{Remove local } \) = Remove local \(\text{le} \) = High \(\text{ved} \) ocked \(\text{ved} \) wity \(\subseteq \text{ w} \)	Other stories S): Dangerous (RE) e building: Number nazards** 3 = Urgento possible collapse	er of injuries \(\square\) t support required
D. (C. S. The ACC. The	DVERALL ASSESSMENT FOR Safe for use (GREEN) e assessment made is: for the substantial formula of the	und story \(\overline{\text{N}} \) OR USE (See back page Unsafe for use (YELLOW) he whole building: \(\overline{\text{N}} \) Number 1 = None 2 3 5 = Urgent r 2 = Medium 3 be demolished or remove the bloconnected: electric connected: electri	for part of the of deaths	Other stories S): Dangerous (RE) e building: Number nazards** 3 = Urgento possible collapse	s for use DD
D. (C) S S S S S S S S S S S S S S S S S S S	DVERALL ASSESSMENT FOR Safe for use (GREEN) e assessment made is: for the summan LOSSES (if known): CTION TAKEN: Combination of actions 2 and in gency: 1 = Low The following elements should east to the following areas is profollowing utilities must be discommended.	or USE (See back page Unsafe for use (YELLOW) he whole building: Number 1 = None 2 3 5 = Urgent r 2 = Medium 3 be demolished or remonophibited and must be bleconnected: electric	for part of the of deaths = Remove local I e-inspection due = High ved	Other stories Solution Dangerous (RE e building: Number nazards** 3 = Urgent to possible collapse ater gas ding.	s for use
D. (C) S S S S S S S S S S S S S S S S S S S	DVERALL ASSESSMENT FOR Safe for use (GREEN) e assessment made is: for the substantial formula of the	or USE (See back page Unsafe for use (YELLOW) he whole building: Number 1 = None 2 3 5 = Urgent r 2 = Medium 3 be demolished or remonophibited and must be bleconnected: electric	for part of the of deaths = Remove local I e-inspection due = High ved	Other stories Solution Dangerous (RE e building: Number nazards** 3 = Urgent to possible collapse ater gas ding.	s for use
D. (Control of the control of the co	DVERALL ASSESSMENT FOR Safe for use (GREEN) e assessment made is: for the substantial formula for the substantial formula for the following elements should sees to the following areas is professional following utilities must be discomments: Bassement.	und story \(\overline{\text{N}} \) OR USE (See back page Unsafe for use (YELLOW) the whole building: \(\overline{\text{N}} \) Number 1 = None	for part of the of deaths	Other stories S): Dangerous (RE) e building: Number nazards** 3 = Urgent to possible collapse ater gas dung.	s for use
The ACC The COUNTRY Sign	DVERALL ASSESSMENT FOR Safe for use (GREEN) e assessment made is: for the summan LOSSES (if known): CTION TAKEN: Combination of actions 2 and gency: 1 = Low The following elements should less to the following areas is professionally the summan should less to the following utilities must be discommended.	und story \(\overline{\text{N}} \) OR USE (See back page Unsafe for use (YELLOW) he whole building: \(\overline{\text{N}} \) Number 1 = None 2 3 5 = Urgent in 2 = Medium 3 be demolished or remove thibited and must be bleconnected: electric	for part of the of deaths	Other stories Solution Solution Dangerous (RE e building: Number nazards** 3 = Urgent to possible collapse ater gas ding. 3. Signature	s for use



Photo 19: Building at Giamboudaki 9 str.

	CTION FORM:	RAPID ASSESSMENT		ATTAKEN PRODESONA	ENT* (2 nd)
*The	information in i	talics need not be fill	ed in durin	g the rapid (1st)	assessment
	LOCATION AND II				
Street	GIAMBOUDA	No. 10 Pe	ostal Code 73	1.34 Town/Municipali	ty CHANIA
Section No:		317 Or Streets surroun GOWNENON GABRILL	ding block:	1 GIANBOUT	DAKI
Position of b	uilding in block:	1=Free 2=Middle (2 c	opposite sides fr	ree) 3=Corner (2	or 3 sides free)
B. DESCRIPT	TON OF THE BUILD	ING			
Number of	stories 🗆 Number	of apartments 🗆 🗷 Area of	story (m2, appr	rox.) 210 Year of c	construction 198
Type of str	uctural system: (see ba	ck page) 27 Usage: (see	back page) G	ROUND STORY TO	STORIES (III)
Soft or weal	story (e.g. pilotis, etc)	YES 🗆 NO 💢 Irregular	rity 🗓 0=Non	ne 1= In height 2= In	layout 3= Both
Number of	basements 🗆 Multi	-level foundation YES []	NO 🗆		
C DAMACE	(a) SEVEDITY.	1 = None 2 = Slight	2 - Modore	oto Hoove 4 - Sc	evere –Total
J. DAWAGE	(b) EXTENT:	1 = None $2 = Signt1 = None$ $2 = Few$	3 = Few t		Several to many
COLUMNS	2□ SHEAR W	ALLS/ELEV. SHAFT	FRAMI	E JOINTS Z	BEAMS 📶
STAIRS		BEARING WALLS			
ROOF	C	HIMNEYS, PARAPETS		DING OUT OF PLUM	Section 1
2000 (C-0)				3=Liquefaction	
**	ssures 6=Rockfalls			And the second of the second o	The state of the s
Indirect da	mage: 🛈 1=Non	7=Other (explain)e 2=Pounding to adjacent b nd story A 1st story	ouilding 3=Fi		
Inspected:	mage: 1=Non Exterior Grou	e 2=Pounding to adjacent b nd story	ouilding 3=Fi	ire 4=Other (explain	1)
Inspected:	mage: 1=Non Exterior Grou LL ASSESSMENT FO	e 2=Pounding to adjacent b nd story \(\sqrt{I} \) \(I^{st} \) story	ouilding 3=Fi	ire 4=Other (explain	1)
Inspected: D. OVERAL Safe for	mage: 1=Non Exterior Grou LL ASSESSMENT FO	nd story 1st story R USE (See back page for expure the story unsafe for use	ouilding 3=Fi	r stories Dangerous for	1)
D. OVERAL Safe for (GREE)	mage: 1=Non Exterior A Grou LL ASSESSMENT FO	e 2=Pounding to adjacent but and story Ist story PR USE (See back page for expure the content of the content o	ouilding 3=Fi	r stories □ Dangerous for (RED)	1)
D. OVERAL Safe for (GREE)	mage: 1=Non Exterior A Grou LL ASSESSMENT FO	e 2=Pounding to adjacent but and story Ist story PR USE (See back page for expure the content of the content o	ouilding 3=Fi Other planations): part of the build	Dangerous for (RED)	1)
Inspected: D. OVERAL Safe for (GREE) The assessme. HUMAN I	Exterior Ground	e 2=Pounding to adjacent but of the story story of the st	planations): part of the build as pool of	Dangerous for (RED) Number of (S** 3 = Urgent su	r use
Inspected: D. OVERAL Safe for (GREE) The assessme. HUMAN I	Exterior Ground	e 2=Pounding to adjacent but of story story OR USE (See back page for expure the story story) Unsafe for use (YELLOW) e whole building: story Number of death 1 = None 2 = Remo	planations): part of the build as DDQ we local hazard tion due to poss	Dangerous for (RED) Number of (S** 3 = Urgent su	r use
Inspected: D. OVERAL Safe for (GREE) The assessm E. HUMAN I 4 = Combin Urgency:	Exterior	e 2=Pounding to adjacent but of story story OR USE (See back page for expure the content of the	planations): part of the build as DDQ ove local hazard tion due to poss	Dangerous for (RED) Number of (S** 3 = Urgent susible collapse	r use
Inspected: D. OVERAL Safe for (GREE) The assessm E. HUMAN I F. ACTION T 4 = Combin Urgency: ** The follo	Exterior Ground	e 2=Pounding to adjacent but of the story story story PR USE (See back page for expunsate for use (YELLOW) e whole building: story Number of death 1 = None	planations): part of the build as DDD we local hazard tion due to poss	Dangerous for (RED) In the second of the se	r use
Inspected: D. OVERAL Safe for (GREE) The assessm E. HUMAN I F. ACTION T 4 = Combin Urgency: ** The follo Access to the	Exterior Ground	e 2=Pounding to adjacent but of story story PR USE (See back page for expunsafe for use (YELLOW) e whole building: for punsafe for use (YELLOW) Number of death 1 = None	planations): part of the build as DDD we local hazard tion due to poss	Dangerous for (RED) ting: Number of s** 3 = Urgent su sible collapse	r use
Inspected: D. OVERAL Safe for (GREE) The assessm E. HUMAN I F. ACTION T 4 = Combin Urgency: ** The follo Access to the	Exterior Ground	Provided to adjacent by the story of the sto	planations): part of the build as DDD we local hazard tion due to poss	Dangerous for (RED) bing: Number of s** 3 = Urgent su sible collapse	r use
Inspected: D. OVERAL Safe for (GREE) The assessm E. HUMAN I F. ACTION T 4 = Combin Urgency: ** The follo Access to the The followin COMMEN	Exterior Ground	PR USE (See back page for extended to the content of the content o	planations): part of the build as DDQ ove local hazard tion due to poss water D	Dangerous for (RED) ling: Number of s** 3 = Urgent su sible collapse gas LL pact of t	r use
Inspected: D. OVERAL Safe for (GREE) The assessm E. HUMAN I F. ACTION T 4 = Combin Urgency: ** The follo Access to the The followin COMMEN	Exterior Ground	PR USE (See back page for extended to the story of the st	planations): part of the build as DDQ ove local hazard tion due to poss water D	Dangerous for (RED) ling: Number of s** 3 = Urgent su sible collapse gas LL pact of t	r use
Inspected: D. OVERAL Safe for (GREE) The assessm E. HUMAN I F. ACTION T 4 = Combin Urgency: ** The follo Access to the The followin COMMEN	Exterior Ground	PR USE (See back page for expunsafe for use (YELLOW) where whole building: I would be a likely be a	planations): part of the build as DDQ ove local hazard tion due to poss water D	Dangerous for (RED) ling: Number of s** 3 = Urgent su sible collapse gas LL pact of t	r use
Inspected: D. OVERAL Safe for (GREE) The assessme. HUMAN I F. ACTION T 4 = Combin Urgency: ** The follo Access to the The followin COMMENT	Exterior Ground	PR USE (See back page for expunsafe for use (YELLOW) where whole building: I would be a likely be a	planations): part of the build as DDD we local hazard tion due to possesses water DDD water DDDD water DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	Dangerous for (RED) bing: Number of s** 3 = Urgent su sible collapse gas L. poxet. of t	r use



Photo 20: Building at Giamboudaki 10 str.

INSPEC	TION FORM:	RAPID ASSESSME	NT (1 st) 🔀	DETAILED ASS	ESSMENT* (2nd)	
*The	nformation in it	alics need not be	filled in d	uring the rapid	(1st) assessme	nt
		unes neeu noi ve	juica in a	uring incrupia	(1) 4556557716	.,,,,
Street Section No:	TBlock No:3.	OF Or Streets sur	rrounding bloc	k: 1GIAMB	OUDAKI	
Position of but	lding in block: B	1=Free 2=Middle	e (2 opposite si	ides free) 3=Corn	er (2 or 3 sides fr	ee)
neccompani	ON OF THE BUILDI	NC				
		of apartments 🗆 🗓 Are	ea of story (m2	approx.) [165] Ye	ear of construction	11915
		k page) 📶 Üsage:				and the second second second second
	SECTION AND ADDRESS OF THE PROPERTY OF THE PARTY OF THE P	YES□ NO⊠ Irre	Service and the service and the service			
		level foundation YES				
	(a) SEVERITY: (b) EXTENT:	1 = None 2 = SI $1 = None 2 = I$		Moderate - Heavy		
					BEAMS	
COLUMNS	DD SHEAR WA	ALLS/ ELEV. SHAFT				
STAIRS		BEARING WALLS		NFILL WALLS (mas BUILDING OUT OF)		
ROOF	В сн	IIMNEYS, PARAPETS	1102	BUILDING OUT OF	12-70-70113-70-70	
Annount me	ot o	The second secon	WALES OF THE PROPERTY.			
		1=None 2=Set 7=Other (explain)	ttlement	3=Liquefaction		
5=Ground fiss	ures 6=Rockfalls	7=Other (explain)				
5=Ground fiss Indirect dam	oures 6=Rockfalls age: 2 1=None	7=Other (explain) 2=Pounding to adjace	ent building	3=Fire 4=Other (e		
5=Ground fiss	oures 6=Rockfalls age: 2 1=None	7=Other (explain)	ent building	3=Fire 4=Other (e		
5=Ground fiss Indirect dam Inspected:	nures 6=Rockfalls age: 2 1=None Exterior Groun	7=Other (explain) 2=Pounding to adjace ad story \(\square \) \(I^{st} \) so	cent building	3=Fire 4=Other (€ Other stories □		
5=Ground fiss Indirect dam Inspected: D. OVERALI	age: 2 1=None Exterior Groun	7=Other (explain) 2=Pounding to adjace ad story \(\sum_{l} I^{st} st R USE (See back page for	cent building	3=Fire 4=Other (e Other stories □	explain)	
5=Ground fiss Indirect dam Inspected:	aures 6=Rockfalls auge: 2 1=None Exterior Groun L ASSESSMENT FOI	7=Other (explain) 2=Pounding to adjace ad story \(\square \) \(I^{st} \) so	cent building	3=Fire 4=Other (c Other stories □ S): Danger		
5=Ground fiss Indirect dam Inspected: D. OVERALL Safe for us	aures 6=Rockfalls auge: 2 1=None Exterior Groun L ASSESSMENT FOI	7=Other (explain) 2=Pounding to adjace ad story \(\subseteq \ I^{st} \) so R USE (See back page for Unsafe for use	cent building	3=Fire 4=Other (c Other stories □ S): Danger	explain)ous for use	
5=Ground fiss Indirect dam Inspected: D. OVERALL Safe for us	age: 2 1=None Exterior Groun C ASSESSMENT FOR	7=Other (explain) 2=Pounding to adjace ad story \(\subseteq \ I^{st} \) so R USE (See back page for Unsafe for use	cent building	3=Fire 4=Other (e Other stories Signature Danger (c)	explain)ous for use	
5=Ground fiss Indirect dam Inspected: 1 D. OVERALL Safe for us (GREEN) The assessme	nures 6=Rockfalls nage: 2 1=None Exterior Groun L ASSESSMENT FOI e	7=Other (explain) 2=Pounding to adjace and story	cent building tory for explanations for part of the	3=Fire 4=Other (e Other stories Danger building: building:	ous for use RED)	
5=Ground fiss Indirect dam Inspected: 1 D. OVERALL Safe for us (GREEN) The assessme	age: 2 1=None Exterior Groun C ASSESSMENT FOR	7=Other (explain) 2=Pounding to adjace and story	cent building	3=Fire 4=Other (e Other stories Danger building: building:	explain)ous for use	
5=Ground fiss Indirect dam Inspected: D. OVERALL Safe for us (GREEN) The assessme	aures 6=Rockfalls lage: 2 1=None Exterior Groun LASSESSMENT FOI e int made is: for the OSSES (if known):	7=Other (explain) 2=Pounding to adjace and story	cent building tory for explanations for part of the deaths Remove local h	3=Fire 4=Other (control of the stories Dangero (control of the stories Dangero (control of the stories Num	ous for use RED)	
5=Ground fiss Indirect dam Inspected: 1 D. OVERALI Safe for us (GREEN) The assessme L. HUMAN LO F. ACTION TA 4 = Combinat	aures 6=Rockfalls lage: 2 1=None Exterior Groun LASSESSMENT FOR the OSSES (if known): LEAST STATE OF THE	7=Other (explain) 2=Pounding to adjace and story	cent building tory for explanations for part of the deaths Remove local h	3=Fire 4=Other (continue of the stories Dangero (continue of the stories Dangero (continue of the stories Number	ous for use RED)	
5=Ground fiss Indirect dam Inspected: 1 D. OVERALL Safe for us (GREEN) The assessme L. HUMAN LC ACTION TA 4 = Combinat Urgency:	age: 2 1=None Exterior Groun LASSESSMENT FOR the Section of actions 2 and 3 1 = Low	7=Other (explain) 2=Pounding to adjace and story	cent building tory for explanations for part of the deaths Remove local haspection due to thigh	3=Fire 4=Other (continue of the stories Dangero (continue of the stories Dangero (continue of the stories Number of the stories Number of the stories 1	ous for use RED)	DOG ed
5=Ground fiss Indirect dam Inspected: D. OVERALI Safe for us (GREEN) The assessme E. HUMAN LC F. ACTION TA 4 = Combinat Urgency: ** The follow	aures 6=Rockfalls age: 2 1=None Exterior Groun LASSESSMENT FOI at the state of t	7=Other (explain) 2=Pounding to adjace and story	for explanations for part of the deaths DDC Remove local h nspection due t High	3=Fire 4=Other (continue of the stories Dangero (continue of the stories Dangero (continue of the stories Dangero (continue of the stories Number of the stories Number of the stories Paragraphy Number of the stories Solve of the stories Number	ous for use RED)	DÖ ed
5=Ground fiss Indirect dam Inspected: D. OVERALI Safe for us (GREEN) The assessme L. HUMAN LC ACTION TA 4 = Combinat Urgency: ** The follow Access to the	aures 6=Rockfalls age: 2 1=None Exterior Groun LASSESSMENT FOI at the state of t	7=Other (explain) 2=Pounding to adjace and story	for part of the deaths DC Remove local haspection due to this bed.	3=Fire 4=Other (continue of the stories Dangero (continue of the stories Dangero (continue of the stories Dangero (continue of the stories Number of the stories Number of the stories Paragraphy Number of the stories Solve of the stories Number	ous for use RED)	DÖ ed
5=Ground fiss Indirect dam Inspected: J D. OVERALL Safe for us (GREEN) The assessme E. HUMAN LO F. ACTION TA 4 = Combinat Urgency: ** The follow Access to the following	age: 2 1=None Exterior A Groun LASSESSMENT FOR the State of the State of the State of actions 2 and 3 B 1 = Low ing elements should be following areas is prohiutilities must be discortage.	7=Other (explain) 2=Pounding to adjace and story	cent building tory or explanations for part of the deaths O Remove local h inspection due t High	3=Fire 4=Other (continue of the stories	ous for use RED)	ODG ed
5=Ground fiss Indirect dam Inspected: I D. OVERALL Safe for us (GREEN) The assessme L. HUMAN LC ACTION TA 4 = Combinat Urgency: ** The follow Access to the The following COMMENTS	aures 6=Rockfalls age: 2 1=None Exterior Groun LASSESSMENT FOI and the control of the control	7=Other (explain) 2=Pounding to adjace and story	cent building tory or explanations for part of the deaths OC Remove local h nspection due t High	3=Fire 4=Other (e Other stories S): Danger building: Num azards** 3 = Urg to possible collapse	ous for use RED)	DD© ed
5=Ground fiss Indirect dam Inspected: D. OVERALI Safe for us (GREEN) The assessme C. HUMAN LC ACTION TA 4 = Combinat Urgency: ** The follow Access to the The following COMMENTS	aures 6=Rockfalls lage: 2 1=None Exterior Groun LASSESSMENT FOI Int made is: for the DSSES (if known): KEN: 8 ion of actions 2 and 3 B 1 = Low ing elements should be following areas is prohiutilities must be discords:	7=Other (explain) 2=Pounding to adjace and story	for part of the deaths DD5 Remove local haspection due to High	3=Fire 4=Other (control of the stories Danger (control of the st	ous for use RED)	DDS ed
5=Ground fiss Indirect dam Inspected: D. OVERALI Safe for us (GREEN) The assessme C. HUMAN LC F. ACTION TA 4 = Combinat Urgency: ** The follow Access to the The following COMMENTS	aures 6=Rockfalls age: 2 1=None Exterior Groun LASSESSMENT FOI at the second	7=Other (explain) 2=Pounding to adjace and story	for part of the deaths DD5 Remove local haspection due to High	3=Fire 4=Other (control of the stories Danger (control of the st	ous for use RED)	DDS ed
5=Ground fiss Indirect dam Inspected: D. OVERALI Safe for us (GREEN) The assessme E. HUMAN LC T. ACTION TA 4 = Combinat Urgency: ** The follow Access to the the following COMMENTS NSPECTION T	aures 6=Rockfalls age: 2 1=None Exterior Groun LASSESSMENT FOI at the second	7=Other (explain) 2=Pounding to adjace and story	cent building tory for explanations for part of the deaths CRemove local h nspection due t High wa	3=Fire 4=Other (control of the stories Danger (control of the st	ous for use RED)	DDS ed

INSP	ECTION FORM:	RAPID ASSESSMENT (1st)	DETAILED ASSESSMENT* (2nd)
			uring the rapid (1st) assessment
		ancs need not be jined in al	uring the rapid (1) assessment
Street Section No.		O.FOr Streets surrounding block	.73434 Town/Municipality .CHANIA c: 1. GIAMBOUDAK). ANNARI-RSYLAKI5
Position of	building in block: 3	1=Free 2=Middle (2 opposite si	des free) 3=Corner (2 or 3 sides free)
	TION OF THE BUILDI		
			approx.) 🗆 85 Year of construction 1952
Type of st	ructural system: (see back	k page) 📶 🗓 Usage: (see back page)	GROUND STORY ZO STORIES
Soft or wea	ak story (e.g. pilotis, etc)	YES 🗆 NO 🛛 Irregularity 💆 (0=None 1= In height 2= In layout 3= Both
Number of	basements 🛈 Multi-	level foundation YES 🗆 NO 🕱	
C. DAMAGI	E (a) SEVERITY: (b) EXTENT:	1 = None 2 = Slight 3 = M I = None 2 = Few 3 = M	foderate - Heavy 4 = Severe -Total 4 = Several to many
COLUMNS	S 22 SHEAR WA	ALLS/ELEV. SHAFT 🗆 FI	RAME JOINTS 🗆 BEAMS 🗆
STAIRS		BEARING WALLS 22 I	NFILL WALLS (masonry, ecc)
ROOF	B CH	IMNEYS, PARAPETS 40	BUILDING OUT OF PLUMB
	ground problems: 1 fissures 6=Rockfalls		3=Liquefaction 4=Slope movement
	amage: 2 1=None		
municet u		/=Pollhoing to adjacent milloing	3=Fire 4=Other (explain)
T	Managaran and Managaran		
Inspected:	Managaran and Managaran	d story \(\sqrt{1}^{st} \) story \(\sqrt{1} \)	3=Fire 4=Other (explain)
	Exterior 🛛 Groun		Other stories
	Exterior Groun	d story ✓ I st story □	Other stories
D. OVERA	Exterior Groun	d story A 1st story C R USE (See back page for explanations Unsafe for use	Other stories Dangerous for use
D. OVERA Safe for (GREE	Exterior Groun	d story A 1st story C R USE (See back page for explanations Unsafe for use	Other stories Dangerous for use (RED)
D. OVERA Safe for (GREE The assess	Exterior Groun	d story I Ist story I R USE (See back page for explanations Unsafe for use (YELLOW)	Other stories Dangerous for use (RED) building:
D. OVERA Safe for (GREE The assess E. HUMAN	Exterior Groun LLL ASSESSMENT FOR USE EN) ment made is: for the LOSSES (if known):	d story A 1st story C R USE (See back page for explanations Unsafe for use (YELLOW) whole building: A for part of the	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required
D. OVERA Safe for (GREE The assess E. HUMAN	Exterior Groun LLL ASSESSMENT FOR Tuse Exterior For the LOSSES (if known): TAKEN:	d story	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required
D. OVERA Safe for (GREE The assess E. HUMAN F. ACTION 4 = Combin Urgency:	Exterior Groun LL ASSESSMENT FOR use EN) ment made is: for the LOSSES (if known): TAKEN: nation of actions 2 and 3 1 = Low	d story \(\sqrt{I} \) \(I^{st} \) story \(\sqrt{I} \) R USE (See back page for explanations Unsafe for use (YELLOW) \(\sqrt{I} \) whole building: \(\sqrt{I} \) for part of the Number of deaths \(\sqrt{I} \) \(Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse
D. OVERA Safe for (GREE The assess E. HUMAN F. ACTION 4 = Combin Urgency: ** The foll	Exterior Ground ALL ASSESSMENT FOR Tuse EN) ment made is: for the LOSSES (if known): TAKEN: nation of actions 2 and 3 1 = Low owing elements should be	d story	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required
D. OVERA Safe for (GREE The assess E. HUMAN F. ACTION 4 = Combin Urgency: ** The folion Access to the	Exterior Ground ALL ASSESSMENT FOR Tuse EN) ment made is: for the LOSSES (if known): TAKEN: nation of actions 2 and 3 1 = Low owing elements should be	A USE (See back page for explanations Unsafe for use (YELLOW) whole building: for part of the Number of deaths 1 = None 2 = Remove local h 5 = Urgent re-inspection due t 2 = Medium 3 = High demolished or removed	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse
D. OVERA Safe for (GREE The assess E. HUMAN F. ACTION 4 = Combin Urgency: ** The foll Access to the	Exterior Ground ALL ASSESSMENT FOR Tuse EN) ment made is: for the LOSSES (if known): TAKEN: nation of actions 2 and 3 1 = Low owing elements should be the following areas is probing utilities must be discorted.	A USE (See back page for explanations Unsafe for use (YELLOW) whole building: for part of the Number of deaths 1 = None	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse
D. OVERA Safe for (GREE The assess E. HUMAN F. ACTION 4 = Combination Urgency: ** The folion Access to the comment COMMENT COMMENT The following comment COMMENT The following comment COMMENT The following comment COMMENT The following comment COMMENT THE FORM C	Exterior Groun LL ASSESSMENT FOR use (N) ment made is: for the LOSSES (if known): TAKEN: nation of actions 2 and 3 1 = Low owing elements should be ne following areas is prohi ing utilities must be discort its:	A USE (See back page for explanations Unsafe for use (YELLOW) whole building: for part of the Number of deaths 1 = None	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse
D. OVERA Safe for (GREE The assess E. HUMAN F. ACTION 4 = Combin Urgency: ** The foll Access to the The followin	Exterior Ground LL ASSESSMENT FOR Tuse EN) ment made is: for the LOSSES (if known): TAKEN: nation of actions 2 and 3 1 = Low owing elements should be ne following areas is prohibing utilities must be discorded.	A USE (See back page for explanations Unsafe for use (YELLOW) whole building: for part of the Number of deaths 1 = None	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse
D. OVERA Safe for (GREE The assess E. HUMAN F. ACTION 4 = Combin Urgency: ** The foll Access to the The followin COMMEN	Exterior Ground LL ASSESSMENT FOR use EN) ment made is: for the LOSSES (if known): TAKEN: nation of actions 2 and 3 1 = Low owing elements should be ne following areas is prohibing utilities must be discontent.	A USE (See back page for explanations Unsafe for use (YELLOW) whole building: for part of the Number of deaths 1 = None	Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required or possible collapse tter gas
D. OVERA Safe for (GREE The assess E. HUMAN F. ACTION 4 = Combination Urgency: ** The folion Access to the following COMMENTALISM NSPECTION I. Signature.	Exterior Ground LL ASSESSMENT FOR Tuse EN) ment made is: for the LOSSES (if known): TAKEN: nation of actions 2 and 3 1 = Low owing elements should be ne following areas is prohibing utilities must be discorded.	d story S	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse
D. OVERA Safe for (GREE The assess E. HUMAN F. ACTION 4 = Combin Urgency: ** The foll Access to the following COMMEN ONSPECTION I. Signature Name/ Title	Exterior Groun LL ASSESSMENT FOR use (N) ment made is: for the LOSSES (if known): TAKEN: nation of actions 2 and 3 1 = Low owing elements should be the following areas is prohibing utilities must be discorded. TEAM DATA	d story ☐ Ist story ☐ R USE (See back page for explanations Unsafe for use (YELLOW) whole building: ☐ for part of the Number of deaths ☐ ☐ 1 = None	Other stories Dangerous for use (RED) building: Number of injuries azards** 3 = Urgent support required o possible collapse tter gas 3. Signature Name /Title



Photo 21: Building at Giamboudaki 11 str.

INSPI	ECTION FORM:	RAPID ASSESSMI	ENT (1°)	DETAILED A	LSSESSMENT* (2nd) []
		italics need not be				
			e jiiieu in i	uuring ine rapi	iii (1) ussessiii	ет
Street Section No:	FBlock No:	D No. 27 .318 Or Streets st 	irrounding blo	ck: 1NEA	RCHOU	
Position of	building in block:	1=Free 2=Midd	le (2 opposite	sides free) 3=C	orner (2 or 3 sides i	ree)
B. DESCRIPT	TION OF THE BUIL	DING				
Number of	stories 🗆 Numbe	er of apartments 🕮 A	rea of story (m	12, approx.) 357	Year of construction	1 1190
Type of str	uctural system: (see b	oack page) 13 Usage:	(see back pag	ge) GROUND STO	ORY ZO STOR	IES 20
Soft or wear	k story (e.g. pilotis, etc	e) YES 🗆 NO 🕱 Irro	egularity 🗌	0=None I= In heig	ght 2= In layout 3=	= Both
Number of	basements Mul	lti-level foundation YES	S□ NO□			
. DAMAGE	(a) SEVERITY: (b) EXTENT:	$1 = None \qquad 2 = S$ $1 = None \qquad 2 = S$	Slight 3 = Few 3 =	Moderate - Heavy - Few to several	4 = Severe -Tota 4 = Several to i	
COLUMNS	□□ SHEAR	WALLS/ ELEV. SHAFT		FRAME JOINTS	□□ BEAMS	
STAIRS		BEARING WALLS	3:□	INFILL WALLS (I	masonry, ecc)	
ROOF	2	CHIMNEYS, PARAPETS		BUILDING OUT	OF PLUMB	
5=Ground f	issures 6=Rockfalls	7=Other (explain)				
5=Ground f Indirect da Inspected:	issures 6=Rockfalls amage: 1=No Exterior Gro LL ASSESSMENT F use	7=Other (explain)	story	3=Fire 4=Other other stories ns):	A710 /	
5=Ground f Indirect da Inspected: D. OVERA Safe for (GREE	issures 6=Rockfalls amage: 1=No Exterior Gro LL ASSESSMENT F use N)	7=Other (explain) one 2=Pounding to adjace ound story 2 1st. FOR USE (See back page 1 Unsafe for use	story for explanation	3=Fire 4=Other other stories ns):	er (explain)gerous for use	
5=Ground f Indirect da Inspected: D. OVERA Safe for (GREE The assessi	issures 6=Rockfalls amage: 1=No Exterior Gro LL ASSESSMENT F use N)	7=Other (explain) one 2=Pounding to adjace ound story	story for explanation	3=Fire 4=Othe Other stories ms): Dan me building:	er (explain)gerous for use	
5=Ground f Indirect d: Inspected: D. OVERA Safe for (GREE The assessi HUMAN I	issures 6=Rockfalls amage: 1=No Exterior Gro LL ASSESSMENT F use N) ment made is: for t LOSSES (if known):	7=Other (explain) one 2=Pounding to adjace ound story	for explanation for part of the deaths Remove local	3=Fire 4=Othe Other stories Dan ne building:	gerous for use (RED) Number of injuries Urgent support requi	
5=Ground f Indirect d: Inspected: D. OVERA Safe for (GREE The assessi HUMAN I ACTION 1 4 = Combin Urgency: ** The follow	Exterior Gro Exterior Gro LL ASSESSMENT F use N) ment made is: for t LOSSES (if known): TAKEN: nation of actions 2 and 1 = Low owing elements should	7=Other (explain) one 2=Pounding to adjace to the pound story of the pound story of the whole building: Number of the whole building: 1 = None 2 = 3 5 = Urgent re-	for explanation for part of the deaths Remove local inspection due to thigh d A. Few	3=Fire 4=Other Other stories man are building: hazards** 3 = 100 possible collapse loose tiles	gerous for use (RED) Number of injuries Urgent support requires	oof
5=Ground f Indirect da Inspected: D. OVERA Safe for (GREE The assessing HUMAN II ACTION II Urgency: ** The folicy Access to the	Exterior Gro Exterior Gro LL ASSESSMENT F use N) ment made is: for t LOSSES (if known): TAKEN: nation of actions 2 and 1 = Low owing elements should	7=Other (explain) one 2=Pounding to adjace to the page of th	for explanation for part of the deaths Remove local inspection due in High d	3=Fire 4=Other Other stories man are building: hazards** 3 = 100 possible collapse loose tiles	gerous for use (RED) Number of injuries Urgent support requires	oof
5=Ground f Indirect da Inspected: D. OVERA Safe for (GREE The assessi HUMAN I ACTION 1 4 = Combin Urgency: ** The following	Exterior Gro Exterior Gro LL ASSESSMENT F use N) ment made is: for t LOSSES (if known): TAKEN: 1 = Low owing elements should te following areas is prong utilities must be discoming a control of the control	7=Other (explain) one 2=Pounding to adjace to the page of th	for explanation for part of the deaths Remove local inspection dues High d S. Few ked	3=Fire 4=Othe Other stories man ne building: hazards** 3 = to possible collapse choose tiles water gas	gerous for use (RED) Number of injuries Urgent support requires	ired
5=Ground f Indirect da Inspected: D. OVERA Safe for (GREE The assessi HUMAN I ACTION 1 4 = Combin Urgency: ** The followin COMMEN	Exterior Gro Exterior Gro LL ASSESSMENT F use N) ment made is: for t LOSSES (if known): TAKEN: D nation of actions 2 and D 1 = Low owing elements should te following areas is prong utilities must be discussed.	7=Other (explain) one 2=Pounding to adjace to the page of th	for explanation for part of the deaths Remove local inspection due and the death are	3=Fire 4=Othe Other stories ns): Dan the building: thazards** 3 = to possible collapse the collapse the services are	gerous for use (RED) Number of injuries Urgent support requires	ired
5=Ground f Indirect d: Inspected: D. OVERA Safe for (GREE The assessi HUMAN I ACTION 4 = Combin Urgency: ** The followin COMMEN	Exterior Gro Exterior Gro LL ASSESSMENT F use N) ment made is: for t LOSSES (if known): TAKEN: D nation of actions 2 and D 1 = Low owing elements should te following areas is prong utilities must be discussed.	7=Other (explain) one 2=Pounding to adjace to the pound story of the pound story of the whole building: Number of the whole building: 1 = None 2 = 3 5 = Urgent respectively and the story of the demolished or remove ohibited and must be block connected: electricity	for explanation for part of the deaths Remove local inspection due and the death are	3=Fire 4=Othe Other stories ns): Dan the building: thazards** 3 = to possible collapse the collapse the services are	gerous for use (RED) Number of injuries Urgent support requires	ired

LOCAL AUTHORITY CHANIA PREFECTURE Crew No: OFFICE CITY OF CHANIA Report No:	4 3
	SSMENT* (2 nd)
*The information in italics need not be filled in during the rapid (1 st) assessment
A. BUILDING LOCATION AND ID Street NEARCHOL No. 23 Postal Code 73134 Town/Muni	cipality CHANIA HOW 5
B. DESCRIPTION OF THE BUILDING	2
Number of stories 🗆 Number of apartments 🗅 🗓 Area of story (m2, approx.) 🗒 🗗 Yea	er of construction 1912
Type of structural system: (see back page) 🖽 Usage: (see back page) GROUND STORY	20 STORIES 20
Soft or weak story (e.g. pilotis, etc) YES \(\text{NO} \) NO \(\text{NO} \) Irregularity \(\text{D} \) 0=None \(1 = \text{In height} \) .	2= In layout 3= Both
Number of basements ⟨ Multi-level foundation YES □ NO 区	
C. 2	4 = Severe -Total 4 = Several to many
COLUMNS 🗆 SHEAR WALLS/ ELEV. SHAFT 🗅 FRAME JOINTS	□ BEAMS □□
STAIRS BEARING WALLS BEARING WALLS (mass	onry, ecc)
ROOF Z CHIMNEYS, PARAPETS 🗆 BUILDING OUT OF P	LUMB
Apparent ground problems: 1=None 2=Settlement 3=Liquefaction 5=Ground fissures 6=Rockfalls 7=Other (explain)	, -
Indirect damage: 1=None 2=Pounding to adjacent building 3=Fire 4=Other (ex	xplain)
Inspected: Exterior ☐ Ground story ☐ I st story ☐ Other stories ☐	
	us for use ED)
E. HUMAN LOSSES (if known): Number of deaths DDD Num	ber of injuries 🗆 🗆 🗖
F. ACTION TAKEN: 2 1 = None 2 = Remove local hazards** 3 = Urget 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse	ent support required
Urgency: 2 1 = Low 2 = Medium 3 = High	
** The following elements should be demolished or removed a. few. loose. biles.	from the root.
Access to the following areas is prohibited and must be blocked	
The following utilities must be disconnected: electricity \square water \square gas \square	
COMMENTS:	
INSPECTION TEAM DATA	
1. Signature 2. Signature 3. Signature Name/ Title Name/ Title Name / Title	
INSPECTION FORM RECEIVED BY: Owner Building manager Other	
Recipient's Signature Name	. Date



Photo 22: Building at Nearchou 23 str.

Street	BUILDING LOCATION AND ID Street		ECTION FORM:	RAPID ASSESSMENT (1st)	▼ DETAILED ASSESSMENT* (2 nd) □
BUILDING LOCATION AND ID Street	BUILDING LOCATION AND ID Street	*Th	e information in i	italics need not be filled in	n during the rapid (1st) assessment
Street	Street N. No. 29. Postal Code #31/24 Town/Municipality . APANDE. Section No 7. Block No 34B. or Streets surrounding block: 1 NEAR-READEA. 2 GEAR-BOUNDARE 3 KRITO NOME POW. 4 4 GOUNT. GARGALL. 5. Position of building in block: 1 Free 2-Middle (2 opposite sides free) 3=Corner (2 or 3 sides free) DESCRIPTION OF THE BUILDING Number of stories 1. Number of apartments 1. 22 Area of story (m2, approx.) 2. 25 12 Year of construction 1. 25 12 Year of construction 1. 25 12 Year of construction 1. 25 12 Year of stories 1. 25 15 Year of construction 1. 25 15 Year of construction 1. 25 15 Year of stories 1. 25 16 Year of construction 1. 25 15 Year of stories 1. 25 16 Year of construction 1. 25 15 Year of stories 1. 25 16 Year of construction 1. 25 15 Year of construction 1. 25 16 Year of year o	RITH DIN	G LOCATION AND II)	
Section No:	Section No:	Street	NEARCHOU		Code 73.134 Town/Municipality CHANIA.
Position of building in block: Preceived 1=Free 2=Middle (2 opposite sides free) 3=Corner (2 or 3 sides free) DESCRIPTION OF THE BUILDING Number of apartments 2	Position of building in block: P=Free 2=Middle (2 opposite sides free) 3=Corner (2 or 3 sides free) DESCRIPTION OF THE BUILDING Number of stories Number of apartments 12 Area of story (m2, approx.) 250 Year of construction Type of structural system: (see back page) 22 Usage: (see back page) GROUND STORY Type of structural system: (see back page) 22 Usage: (see back page) GROUND STORY Type of structural system: (see back page)	Section No	:	.318Or Streets surrounding l	block: 1NEARCHOU
DESCRIPTION OF THE BUILDING	DESCRIPTION OF THE BUILDING Number of stories				
Number of stories	Number of stories A Number of apartments 12 Area of story (m2, approx.) 256 Year of construction 158 Type of structural system: (see back page) 22 Usage: (see back page) GROUND STORY 22 STORIES 160 Soft or weak story (e.g. pilotis, etc.) YES NO Irregularity O-None 1= In height 2= In layout 3= Both Number of basements Multi-level foundation YES NO DAMAGE (a) SEVERITY: 1= None 2= Slight 3= Moderate - Heavy 4= Severe - Total (b) EXTENT: 1= None 2= Few 3= Few to several 4= Several to many COLUMNS 40 SHEAR WALLS/ ELEV. SHAFT OF FRAME JOINTS 40 BEAMS 40 STAIRS 40 BEARING WALLS INFILL WALLS (masonry, ecc) 40 STAIRS 40 BEARING WALLS INFILL WALLS (masonry, ecc) 40 STAIRS 40 BEARING WALLS INFILL WALLS (masonry, ecc) 41 Second fissures 6= Rockfalls 7= Other (explain) Second fissures 6= Rockfalls 7=	Position of	building in block:	1=Free 2=Middle (2 opposi	ite sides free) 3=Corner (2 or 3 sides free)
Type of structural system: (see back page) 22	Type of structural system: (see back page) 22				
Soft or weak story (e.g. pilotis, etc) YES NO	Soft or weak story (e.g. pilotis, etc) YES NO Irregularity 0=None 1= In height 2= In layout 3= Both Number of basements Multi-level foundation YES NO DAMAGE (a) SEVERITY: 1 = None 2 = Slight 3 = Moderate - Heavy 4 = Severe - Total (b) EXTENT: 1 = None 2 = Few 3 = Few to several 4 = Several to many COLUMNS 4 SHEAR WALLS/ELEV. SHAFT FRAME JOINTS 4 BEARING WALLS INFILL WALLS (masonry, eec) 4 ROOF CHIMMEYS, PARAPETS BULLDING OUT OF PLUMB 4 Plumany Apparent ground problems: 1 = None 2 = Settlement 3 = Liquefaction 4 = Slope movement of the stories				2 Part 1980 W. W. 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 1980 19
Multi-level foundation YES NO	Number of basements Multi-level foundation YES NO	Type of st	ructural system: (see ba	ick page) 22 Usage: (see back p	page) GROUND STORY A STORIES A
Multi-level foundation YES NO	Number of basements Multi-level foundation YES NO	Soft or wea	ak story (e.g. pilotis, etc)	YES ⋈ NO □ Irregularity	□ 0=None 1= In height 2= In layout 3= Both
(b) EXTENT:	(b) EXTENT:			The state of the s	
(b) EXTENT:	(b) EXTENT:	212616	n () control on (1 - 37	- N. 1 1 - X 1 - S 2 - 2 - 2 - 2
SHEAR WALLS/ELEV. SHAFT	SHEAR WALLS/ELEV. SHAFT	DAMAG			
BEARING WALLS	BEARING WALLS				
Apparent ground problems: 1=None 2=Settlement 3=Liquefaction 4=Slope movement 5=Ground fissures 6=Rockfalls 7=Other (explain)	Apparent ground problems: 1=None 2=Settlement 3=Liquefaction 4=Slope movement 5=Ground fissures 6=Rockfalls 7=Other (explain)	COLUMN			2001 - Carlos No. 2007 - Carlos Carlo
Apparent ground problems:	Apparent ground problems:	STAIRS	410		INFILL WALLS (masonry, ecc) 4
Seground fissures 6 = Rockfalls 7 = Other (explain) 1 = None 2 = Pounding to adjacent building 3 = Fire 4 = Other (explain) 1 = Story Other stories 0 Other stories	Seground fissures 6=Rockfalls 7=Other (explain) 1=None 2=Pounding to adjacent building 3=Fire 4=Other (explain) 1=Story Other stories 0 Other st	ROOF	□ c	HIMNEYS, PARAPETS	BUILDING OUT OF PLUMB
Seground fissures 6 = Rockfalls 7 = Other (explain) 1 = None 2 = Pounding to adjacent building 3 = Fire 4 = Other (explain) 1 = Story Other stories 0 Other stories	Seground fissures 6=Rockfalls 7=Other (explain) 1=None 2=Pounding to adjacent building 3=Fire 4=Other (explain) 1=Story Other stories 0 Other st	Annarent	ground problems:	☐ 1=None 2=Settlement	3=Liquefaction 4=Slope moven
Indirect damage:	Indirect damage:			7=Other (explain)	
Inspected: Exterior Ground story 1story Other stories	Inspected: Exterior Ground story 1story Other stories	Indiract d	lamage: M 1=Non		
O. OVERALL ASSESSMENT FOR USE (See back page for explanations): Safe for use	O. OVERALL ASSESSMENT FOR USE (See back page for explanations): Safe for use (GREEN) Unsafe for use (YELLOW) Dangerous for use (RED) The assessment made is: for the whole building: for part of the building: HUMAN LOSSES (if known): Number of deaths DE Number of injuries DE ACTION TAKEN: 1 = None 2 = Remove local hazards** 3 = Urgent support required 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas ACCOMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature Name/ Title Name/ Title Name/ Title			ic 2-rounding to adjacent bundin	ig 5-The 4-Outer (explain)
Safe for use (GREEN) Unsafe for use (YELLOW) Dangerous for use (RED) The assessment made is: for the whole building: ☐ for part of the building: ☐ HUMAN LOSSES (if known): Number of deaths ☐☐ Number of injuries ☐☐ ACTION TAKEN: ☐ 1 = None 2 = Remove local hazards** 3 = Urgent support required 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: ☐ 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity ☐ water ☐ gas ☐ COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature	Safe for use (GREEN) Unsafe for use (YELLOW) Dangerous for use (RED) The assessment made is: for the whole building: ### for part of the building: ### Muman Losses (if known): Number of deaths □□② Number of injuries □Æ□② ### ACTION TAKEN: ### 1 = None 2 = Remove local hazards*** 3 = Urgent support required 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse #### The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. ###################################	Inspected:			
Safe for use (GREEN) Unsafe for use (YELLOW) Dangerous for use (RED) The assessment made is: for the whole building: ☐ for part of the building: ☐ HUMAN LOSSES (if known): Number of deaths ☐☐ Number of injuries ☐☐ ACTION TAKEN: ☐ 1 = None 2 = Remove local hazards** 3 = Urgent support required 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: ☐ 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity ☐ water ☐ gas ☐ COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature	Safe for use (GREEN) Unsafe for use (YELLOW) Dangerous for use (RED) The assessment made is: for the whole building: ### for part of the building: ### Muman Losses (if known): Number of deaths □□② Number of injuries □Æ□② ### ACTION TAKEN: ### 1 = None 2 = Remove local hazards*** 3 = Urgent support required 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse #### The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. ###################################		Exterior Grou	and story \Box 1 st story \Box	
The assessment made is: for the whole building: ☐ for part of the building: ☐ HUMAN LOSSES (if known): Number of deaths ☐ ☐ Number of injuries ☐ ☐ ☐ ACTION TAKEN: ☐ 1 = None 2 = Remove local hazards** 3 = Urgent support required 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: ☐ 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed. Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity ☐ water ☐ gas ☐ COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature	The assessment made is: for the whole building: ☐ for part of the building: ☐ HUMAN LOSSES (if known): Number of deaths ☐☐ Number of injuries ☐☐☐ ACTION TAKEN: ☐ 1 = None 2 = Remove local hazards** 3 = Urgent support required 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: ☐ 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity ☒ water ☒ gas ☒ COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature Name / Title Name / Title Name / Title				Other stories
The assessment made is: for the whole building: for part of the building: Number of injuries	The assessment made is: for the whole building: for part of the building: Number of injuries	OVERA	ALL ASSESSMENT FO	OR USE (See back page for explanat	Other stories tions):
HUMAN LOSSES (if known): Number of deaths	HUMAN LOSSES (if known): Number of deaths	O. OVERA	ALL ASSESSMENT FO	OR USE (See back page for explanate Unsafe for use	Other stories tions): Dangerous for use
HUMAN LOSSES (if known): Number of deaths	HUMAN LOSSES (if known): Number of deaths	OVERA Safe for	ALL ASSESSMENT FO	OR USE (See back page for explanate Unsafe for use	Other stories tions): Dangerous for use
ACTION TAKEN:	ACTION TAKEN:	Safe for (GREE	ALL ASSESSMENT FO	OR USE (See back page for explanate Unsafe for use (YELLOW)	Other stories tions): Dangerous for use (RED)
4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: 1 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas Sepection COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature	4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: 1 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas comments: COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature Name/ Title Name / Title Name / Title	Safe for (GREE	ALL ASSESSMENT FO	OR USE (See back page for explanate Unsafe for use (YELLOW)	Other stories tions): Dangerous for use (RED)
4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: 1 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas Sepection COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature	4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse Urgency: 1 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas gas COMMENTS: SPECTION TEAM DATA Signature	Safe for (GREE	ALL ASSESSMENT FO	OR USE (See back page for explanar Unsafe for use (YELLOW) ne whole building: for part of	Other stories tions): Dangerous for use (RED) f the building:
Urgency: 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked The following utilities must be disconnected: electricity water gas COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature	Urgency: ☐ 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed **Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity ☒ water ☒ gas ☒ **COMMENTS: **SPECTION TEAM DATA Signature	Safe for (GREE The assess	ALL ASSESSMENT FO	Unsafe for use (YELLOW) The whole building: Number of deaths	Other stories tions): Dangerous for use (RED) f the building: Number of injuries
** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas comments: COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature	** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas comments: COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature Name/ Title Name / Title Name / Title	Safe for (GREE The assess HUMAN	MALL ASSESSMENT FOR THE LOSSES (if known):	Unsafe for use (YELLOW) The whole building: Number of deaths 1 = None 2 = Remove localizations 2 = Remove localizations 2 = Remove localizations 2 = Remove localizations 3 = Remove localizations 4 = None 2 = Remove localizations 4 = None 4 = Remove localizations 5 = Remove localizations 5 = Remove localizations 6 = Remove localizations 7 = Remove localizations 8 = Remove localizations 8 = Remove localizations 8 = Remove localizations 9 = Remove localizations 1	Other stories tions): Dangerous for use (RED) f the building: Number of injuries all hazards** 3 = Urgent support required
Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas gas COMMENTS: SPECTION TEAM DATA Signature. 2. Signature. 3. Signature	Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas gas COMMENTS: SPECTION TEAM DATA Signature	Safe for (GREE) The assess HUMAN ACTION 4 = Combi	ment made is: for the LOSSES (if known): TAKEN: 5 nation of actions 2 and 3	Unsafe for use (YELLOW) The whole building: Number of deaths 1 = None	Other stories tions): Dangerous for use (RED) f the building: Number of injuries all hazards** 3 = Urgent support required
The following utilities must be disconnected: electricity \(\) water \(\) gas \(\) COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature	The following utilities must be disconnected: electricity \(\) water \(\) gas \(\) COMMENTS: SPECTION TEAM DATA Signature	Safe for (GREE) The assess HUMAN ACTION 4 = Combi	ment made is: for the LOSSES (if known): TAKEN: 5 nation of actions 2 and 3	Unsafe for use (YELLOW) The whole building: Number of deaths 1 = None	Other stories tions): Dangerous for use (RED) f the building: Number of injuries all hazards** 3 = Urgent support required
COMMENTS: SPECTION TEAM DATA Signature 3. Signature 3. Signature	SPECTION TEAM DATA Signature 2. Signature 3. Signature Name/ Title Name / Title Name / Title	Safe for (GREE) The assess HUMAN ACTION 4 = Combi Urgency:	ment made is: for the LOSSES (if known): TAKEN: 50 nation of actions 2 and 3	Unsafe for use (YELLOW) The whole building: The for part of the whole building: The for part of the whole building: The second of the formula of the whole building: The second of the formula of the whole building: The second of the who	Other stories tions): Dangerous for use (RED) f the building: Number of injuries al hazards** 3 = Urgent support required due to possible collapse
SPECTION TEAM DATA Signature 3. Signature 3. Signature	SPECTION TEAM DATA Signature 3. Signature Name/ Title Name / Title Name / Title	Safe for (GREE) The assess HUMAN ACTION 4 = Combi Urgency:	ment made is: for the LOSSES (if known): TAKEN: 50 nation of actions 2 and 3 1 = Low lowing elements should be	Unsafe for use (YELLOW) The whole building: The part of the formula of the whole building: The part of the formula of the part of the whole building: The part of the p	Other stories Dangerous for use (RED) f the building: Number of injuries all hazards** 3 = Urgent support required due to possible collapse
SPECTION TEAM DATA Signature 3. Signature 3. Signature	SPECTION TEAM DATA Signature 3. Signature Name/ Title Name / Title Name / Title	Safe for (GREE) The assess HUMAN ACTION 4 = Combi Urgency: ** The foll Access to t	ment made is: for the LOSSES (if known): TAKEN: 5 nation of actions 2 and 3 1 = Low lowing elements should be the following areas is pro	Unsafe for use (YELLOW) The whole building: The for part of the whole building: The for part of the part of the whole building: The for part of the part of	Other stories Dangerous for use (RED) f the building: Number of injuries al hazards** 3 = Urgent support required due to possible collapse
SPECTION TEAM DATA Signature 2. Signature 3. Signature	SPECTION TEAM DATA Signature 3. Signature Name/ Title Name / Title Name / Title	Safe for (GREE) The assess HUMAN ACTION 4 = Combi Urgency: ** The foll Access to t	ment made is: for the LOSSES (if known): TAKEN: 50 nation of actions 2 and 3 1 = Low lowing elements should be the following areas is proing utilities must be disconsing utilities must be disconsing utilities.	Unsafe for use (YELLOW) The whole building: for part of the w	Other stories Dangerous for use (RED) f the building: Number of injuries al hazards** 3 = Urgent support required due to possible collapse water gas gas gas
SPECTION TEAM DATA Signature 3. Signature 3. Signature	SPECTION TEAM DATA Signature 2. Signature 3. Signature Name/ Title Name / Title Name / Title	Safe for (GREE) The assess HUMAN ACTION 4 = Combi Urgency: ** The foll Access to t The follow COMMEN	ment made is: for the LOSSES (if known): TAKEN: 50 nation of actions 2 and 3 1 = Low lowing elements should be the following areas is proing utilities must be discounts:	Unsafe for use (YELLOW) The whole building: for part of the w	Other stories Dangerous for use (RED) f the building: Number of injuries al hazards** 3 = Urgent support required due to possible collapse water gas gas gas
Signature 2. Signature 3. Signature	Signature 2. Signature 3. Signature Name/ Title Name/ Title Name / Title	Safe for (GREE) The assess HUMAN ACTION 4 = Combi Urgency: ** The foll Access to t The follow COMMEN	ment made is: for the LOSSES (if known): TAKEN: 50 nation of actions 2 and 3 1 = Low towing elements should be the following areas is proing utilities must be discounts:	Unsafe for use (YELLOW) The whole building: The for part of the who	Other stories ☐ tions): Dangerous for use (RED) f the building: ☐ Number of injuries ☐ cal hazards** 3 = Urgent support required due to possible collapse water ☒ gas ☒
Signature 2. Signature 3. Signature	Signature 2. Signature 3. Signature Name/ Title Name/ Title Name / Title	Safe for (GREE) The assess HUMAN ACTION 4 = Combi Urgency: ** The foll Access to t The follow COMMEN	ment made is: for the LOSSES (if known): TAKEN: 50 nation of actions 2 and 3 1 = Low lowing elements should be the following areas is proing utilities must be discovers:	Unsafe for use (YELLOW) The whole building: The for part of the who	other stories □ tions): Dangerous for use (RED) f the building: □ Number of injuries □ ② cal hazards** 3 = Urgent support required due to possible collapse water □ gas □
	Name/ Title	Safe for (GREE) The assess HUMAN ACTION 4 = Combi Urgency: ** The foll Access to t The follow	ment made is: for the LOSSES (if known): TAKEN: 5 nation of actions 2 and 3 1 = Low lowing elements should be following areas is proing utilities must be discounts:	Unsafe for use (YELLOW) The whole building: The for part of the who	other stories □ tions): Dangerous for use (RED) f the building: □ Number of injuries □ ② cal hazards** 3 = Urgent support required due to possible collapse water □ gas □
	Total 2009 2014	Safe for (GREE) The assess HUMAN ACTION 4 = Combi Urgency: ** The follow COMMEN	ment made is: for the LOSSES (if known): TAKEN: 5 nation of actions 2 and 3 1 = Low lowing elements should be following areas is proing utilities must be discovered.	Unsafe for use (YELLOW) The whole building: for part of the w	Other stories ☐ tions): Dangerous for use (RED) f the building: ☐ Number of injuries ☐ cal hazards** 3 = Urgent support required due to possible collapse water ☒ gas ☒
SPECTION FORM RECEIVED BY: Owner Building manager Other	cipient's Signature	Safe for (GREF The assess HUMAN ACTION 4 = Combi Urgency: ** The follow COMMEN COMMEN SPECTION Signature Name/ Titl	ment made is: for the LOSSES (if known): TAKEN: 50 nation of actions 2 and 3 1 = Low lowing elements should be following areas is proing utilities must be discovered. TEAM DATA	Unsafe for use (YELLOW) ne whole building: for part of the wh	Other stories Dangerous for use (RED) f the building: Number of injuries al hazards** 3 = Urgent support required flue to possible collapse water gas 3. Signature Name /Title

Apparent ground problems:	INSPEC	CTION FORM:	RAPID ASSESSMENT (1st)	☐ DETAILED AS	SESSMENT* (2nd)
BUILDING LOCATION AND ID Street. N.E.ABACHCHA. No. 29. Postal Code. #3.43Å Town/Municipality CHANIE. Section No. 34E. Or Streets surrounding block: 1. N.E.A.R.A.B.C.M. 2. G.F.AM BOUDAKI. 3. K.R.T. C.M. H.G.C.M. 4. H.G.C.M. 6. A.B.A.M. 5. Position of building in block: 1	*The	information in i	talics need not be filled	in during the rapid	(1st) assessment
Section No	BUILDING	LOCATION AND ID			
2. G-RAMBOUDA-KI. 3. K-RUTONOLLIDOM. 4. HGCOLM. G-ABRILL. 5. Position of building in block: 1	Street	VEARCHOU		Code. 73.134 Town/Mi	micipality CHANIA
DESCRIPTION OF THE BUILDING Number of stories	2GIAM	BOUDAKI 3	KRITOYOULIDOU 4	HGOUN GABRILL	5
Number of stories	Position of bu	ilding in block:	1=Free 2=Middle (2 oppos	site sides free) 3=Cor	mer (2 or 3 sides free)
Type of structural system: (see back page)		- 72 명이 남아있다. [[발 경기 12 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
Soft or weak story (e.g. pilotis, etc) YES NO					
Number of basements Multi-level foundation YES NO	Type of struc	ctural system: (see ba	ck page) $\square\square$ Usage: (see back	page) GROUND STOF	RY 11/11 STORIES 11/10
DAMAGE (a) SEVERITY: 1 = None 2 = Slight 3 = Moderate - Heavy 4 = Severe - Total (b) EXTENT: 1 = None 2 = Few 3 = Few to several 4 = Several to many COLUMNS 4	Soft or weak	story (e.g. pilotis, etc)	YES ⋈ NO □ Irregularity	1 0=None I= In heigh	t 2= In layout 3= Both
(b) EXTENT:	Number of b	asements 🗌 Multi	-level foundation YES NO	<	
BEARING WALLS					
Apparent ground problems: 1 = None	COLUMNS	43 SHEAR W	ALLS/ELEV. SHAFT 23	FRAME JOINTS	42 BEAMS 42
Apparent ground problems:	STAIRS	42	BEARING WALLS	INFILL WALLS (ma	asonry, ecc)
Seground fissures General Seground fissures General Seground fissures Seground fissures Seground fissures Seground fissures Seground story Segr	ROOF	□ C	HIMNEYS, PARAPETS	BUILDING OUT OF	PLUMB 🛎
Indirect damage:					
Inspected: Exterior Ground story Description	5=Ground fiss				
D. OVERALL ASSESSMENT FOR USE (See back page for explanations): Safe for use (GREEN) Unsafe for use (YELLOW) Dangerous for use (RED) The assessment made is: for the whole building: for part of the building: HUMAN LOSSES (if known): Number of deaths DD Number of injuries DD ACTION TAKEN: 1 = None 2 = Remove local hazards** 3 = Urgent support required 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse 6= Urgent demolition Urgency: 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature	Indirect dan	nage: 🗌 1=Non	2=Pounding to adjacent build:	ing 3=Fire 4=Other	(explain)
Safe for use (GREEN) The assessment made is: for the whole building: for part of the building: HUMAN LOSSES (if known): Number of deaths				Own Shares I was seen	
Safe for use (GREEN) The assessment made is: for the whole building: for part of the building: HUMAN LOSSES (if known): Number of deaths	Inspected:	Exterior 🕱 Grou	nd story 🛛 I st story 🖫		
The assessment made is: for the whole building: for part of the building: HUMAN LOSSES (if known): Number of deaths				Other stories	A)
The assessment made is: for the whole building: for part of the building: HUMAN LOSSES (if known): Number of deaths			R USE (See back page for explana	Other stories ations):	*)
HUMAN LOSSES (if known): Number of deaths \[\begin{array}{cccccccccccccccccccccccccccccccccccc	D. OVERAL	L ASSESSMENT FO	R USE (See back page for explanation of the Unsafe for use	Other stories ations):	erous for use
HUMAN LOSSES (if known): Number of deaths \[\begin{array}{cccccccccccccccccccccccccccccccccccc	O. OVERALI	L ASSESSMENT FO	R USE (See back page for explanation of the Unsafe for use	Other stories ations):	erous for use
ACTION TAKEN: 6 1 = None 2 = Remove local hazards** 3 = Urgent support required 4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse 6 = Urgent demolition Urgency: 2 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature	Safe for us (GREEN)	L ASSESSMENT FO	Unsafe for use (YELLOW)	Other stories ations): Dange	erous for use
4 = Combination of actions 2 and 3 5 = Urgent re-inspection due to possible collapse 6= Urgent demolition Urgency: 2 1 = Low 2 = Medium 3 = High ** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature	Safe for us (GREEN)	L ASSESSMENT FO	Unsafe for use (YELLOW)	Other stories ations): Dange	erous for use
** The following elements should be demolished or removed Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature	Safe for us (GREEN)	L ASSESSMENT FO	Unsafe for use (YELLOW) whole building: for part	Other stories ations): Dange of the building:	erous for use (RED)
Access to the following areas is prohibited and must be blocked. The following utilities must be disconnected: electricity water gas COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature	Safe for us (GREEN) The assessme HUMAN LO	Ent made is: for the DSSES (if known):	Unsafe for use (YELLOW) e whole building: for part Number of deaths 1 = None 2 = Remove le	Other stories ations): Dange of the building: Nu ocal hazards** 3 = U	rous for use (RED)
The following utilities must be disconnected: electricity water gas COMMENTS: SPECTION TEAM DATA Signature 2. Signature 3. Signature	Safe for us (GREEN) The assessment HUMAN LO ACTION TA 4 = Combinat	ent made is: for the DSSES (if known): AKEN: 6 tion of actions 2 and 3	Unsafe for use (YELLOW) e whole building: for part of the part of	Other stories ations): Dange of the building: Nu ocal hazards** 3 = U	rous for use (RED)
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SPECTION TEAM DATA Signature 3. Signature 3. Signature	Safe for us (GREEN) The assessme HUMAN LO ACTION TA 4 = Combinat Urgency: ** The follow	ent made is: for the DSSES (if known): AKEN: 6 tion of actions 2 and 3 2 1 = Low ring elements should b	PR USE (See back page for explanation of the control of the contro	Other stories ations): Dange of the building: Nu ocal hazards** 3 = U due to possible collapse	erous for use (RED) unber of injuries DDD rgent support required 6= Urgent demolition
SPECTION TEAM DATA Signature 2. Signature 3. Signature	D. OVERALI Safe for us (GREEN) The assessme HUMAN LO ACTION TA 4 = Combinat Urgency: ** The follow Access to the	ent made is: for the continuous	Unsafe for use (YELLOW) e whole building: for part of the part of	Other stories ations): Dange of the building: Nu ocal hazards** 3 = U due to possible collapse	erous for use (RED) umber of injuries gent support required 6-Urgent demolition
SPECTION TEAM DATA Signature 3. Signature 3. Signature	D. OVERALI Safe for us (GREEN) The assessme HUMAN LO ACTION TA 4 = Combinat Urgency: ** The follow Access to the	ent made is: for the OSSES (if known): AKEN: 5 tion of actions 2 and 3 2 1 = Low ring elements should b following areas is profit gutilities must be disco	Unsafe for use (YELLOW) e whole building: for part of the part of	Other stories ations): Dange of the building: Nu ocal hazards** 3 = U due to possible collapse water gas	erous for use (RED) umber of injuries regent support required 6= Urgent demolition
SPECTION TEAM DATA Signature 3. Signature 3. Signature	D. OVERALI Safe for us (GREEN) The assessme HUMAN LO ACTION TA 4 = Combinat Urgency: ** The follow Access to the The following	ent made is: for the DSSES (if known): AKEN: 5 tion of actions 2 and 3 2 1 = Low ring elements should be following areas is profit utilities must be discoss:	Unsafe for use (YELLOW) e whole building: for part of the part of	Other stories ations): Dange of the building: Nu ocal hazards** 3 = U due to possible collapse water gas	erous for use (RED) umber of injuries rgent support required 6= Urgent demolition
Signature 2. Signature 3. Signature	D. OVERALI Safe for us (GREEN) The assessme HUMAN LO ACTION TA 4 = Combinat Urgency: ** The follow Access to the The following COMMENT:	ent made is: for the OSSES (if known): AKEN: 6 tion of actions 2 and 3 2 1 = Low ring elements should be following areas is prolify utilities must be disconse:	Unsafe for use (YELLOW) e whole building: for part of the part of	Other stories ations): Dange of the building: Nu ocal hazards** 3 = U due to possible collapse water gas	erous for use (RED) umber of injuries rgent support required 6= Urgent demolition
	D. OVERALI Safe for us (GREEN) The assessme HUMAN LO ACTION TA 4 = Combinat Urgency: ** The follow Access to the The following COMMENT:	ent made is: for the OSSES (if known): AKEN: 6 tion of actions 2 and 3 2 1 = Low ring elements should be following areas is prolify utilities must be disconse:	Unsafe for use (YELLOW) e whole building: for part of the part of	Other stories ations): Dange of the building: Nu ocal hazards** 3 = U due to possible collapse water gas	erous for use (RED) umber of injuries rgent support required 6= Urgent demolition
	D. OVERALI Safe for us (GREEN) The assessme HUMAN LC ACTION TA 4 = Combinat Urgency: ** The follow Access to the The following COMMENT: SPECTION T	ent made is: for the DSSES (if known): AKEN: 6 tion of actions 2 and 3 2 1 = Low ring elements should be following areas is prolong utilities must be disconsected.	Unsafe for use (YELLOW) e whole building: for part of the part of	Other stories ations): Dange of the building: Nu ocal hazards** 3 = U due to possible collapse water gas	erous for use (RED) umber of injuries □□□ regent support required 6= Urgent demolition
SPECTION FORM RECEIVED BY: Owner Building manager Other	D. OVERALI Safe for us (GREEN) The assessme HUMAN LC ACTION TA 4 = Combinat Urgency: ** The follow Access to the The following COMMENT: SEPECTION T Signature Name/ Title	EAM DATA	Unsafe for use (YELLOW) e whole building: for part Number of deaths 1 = None 2 = Remove k 5 = Urgent re-inspection 2 = Medium 3 = High e demolished or removed	Other stories ations): Dange of the building: Nu ocal hazards** 3 = U due to possible collapse water gas 3. Signature Name /Title	erous for use (RED) unber of injuries rgent support required 6=Ungent demolition



Photo 23: Building at Nearchou 29 str.