

Earthquake Damage Inspection Form (EDIF)

Rapid Inspection Form

Table 1 - General Site/Building Information

Country:	Türkiye	
Province/District:	Hatay	
City/Town:	Serinvöl / Hatay	
Building Name:	Mustafa Kemal Sitesi	
Building Owner or Staff name:		
Building Location:	Latitude:	Longitude:
Insert a Screenshot from Google Earth and/or complete address	Mustafa Kemal Sitesi No: 108, Kapi: 22 Üniversite Kampusu yani Serinvöl /Hatay	
Date of the Site Visit:	May 24, 2023	
Name of the assessor:	Dr. Thomas ZILLY	
Building Age and Original use:	<ul style="list-style-type: none"> • Year of Construction: around 2000 • Original use of the building: Residential 	
Available information regarding building construction:		
<ol style="list-style-type: none"> 1. Facility/Building Site Layout? No 2. Structural Floor Plans? No 3. Any previously performed seismic assessment? No 		
How many floors are in the building (Including ground floor): 4		
How many underground floors are in the building: 0		
Which is the floor occupied by UN personnel: 3		

Table 2 – Damage

(a) SEVERITY (1st BOX): 1 = None, 2 = Slight, 3 = Moderate, 4 = Severe	
(b) EXTENT (2nd BOX): 1 = None, 2 = 1 to few, 3 = Few to several, 4 = Several to many	
Columns: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/>	Stairs: 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/>
Shear Walls/Elev. Shaft: 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/>	Frame Joints: 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/>
Bearing Walls: 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> N/A <input type="checkbox"/>	Beams: 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/>

Infill Walls (masonry, etc.): 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/>	Roof: 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> N/A <input type="checkbox"/>
<p>Notes and Comments:</p> <ul style="list-style-type: none"> • There were fresh visible aftershock-earthquake-damages observed, after the first EQ in February 2023 • On external facade walls are some huge cracks on the wall plaster to note, which are not yet repaired. • Some cracks can be seen on some supports/columns of the exterior facade, which require further static investigation to ensure that the occupants are in safe housing. • Some soil settlement on the surrounding ground of the building lot were observed • Inside the building are currently no cracks on infill walls and staircase area walls to note because the rehabilitation measures were all advanced when the building inspection was performed. The repair works started soon after the EQ. • Inside the staff apartment seem the columns & beams to be in good conditions. Not any damages were observed, as the repair works were already finished. • The wooden roof is structural-wise in good conditions • Ground problems cannot be excluded. • It is recommended to perform further geotechnical survey by authorities. • The building is currently unsafe for use (structural-wise), because of above mentioned cracks on columns on external facades. The plaster crack damages to the exterior facades, cracks on infill walls, and slight cracks on columns, which have not yet been repaired, indicate that the building would have been classified as a moderate damage class immediately after the earthquake. It is recommended to perform a more detailed structural assessment from the building owner (and/or) authorities to ensure that the structural system and the reinforcement of the building is still working. 	

<p>Apparent Ground Problems: <input type="checkbox"/> None <input checked="" type="checkbox"/> Settlement <input type="checkbox"/> Liquefaction <input type="checkbox"/> Slope movement <input type="checkbox"/> Ground Fissures <input type="checkbox"/> Rockfalls <input type="checkbox"/> Other (explain): geotechnical survey recommended</p>
<p>Indirect damage: <input checked="" type="checkbox"/> None <input type="checkbox"/> Pounding to adjacent bldg. <input type="checkbox"/> Fire <input type="checkbox"/> Other (explain):</p>
<p>Inspected: <input checked="" type="checkbox"/> Exterior <input checked="" type="checkbox"/> Ground Story <input type="checkbox"/> Basement <input checked="" type="checkbox"/> Floor #: 1 <input checked="" type="checkbox"/> Roof</p>


Table 3 – Overall Assessment for use

<p>OVERALL ASSESSMENT FOR USE (see last page for explanations):</p> <p><input type="checkbox"/> Safe for Use (Green) <input checked="" type="checkbox"/> Unsafe for use (Yellow): <input type="checkbox"/> Dangerous for use (Red)</p> <p>The assessment is made for: <input checked="" type="checkbox"/> the whole building <input type="checkbox"/> part of the building</p> <p>It should be noted that the final decision and certification for re-use of the apartment or building or house remain with the relevant national authorities.</p>
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Table 4 – Action to take

Required action: <input type="checkbox"/> None <input type="checkbox"/> Technical verification/repair (details below) <input type="checkbox"/> Remove local hazard (details below) <input checked="" type="checkbox"/> Structural support/reinforcement <input checked="" type="checkbox"/> Detailed inspection required <input type="checkbox"/> Urgent demolition
Urgency: <input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High
The following elements must be verified by technician/specialist: <input type="checkbox"/> Water pipes <input checked="" type="checkbox"/> Gas pipes <input type="checkbox"/> Elevator engine and cables <input type="checkbox"/> False/secondary ceiling <input type="checkbox"/> Windows <input type="checkbox"/> Doors
The following elements must be repaired: some cracks of the plaster on the external walls and cracks on columns seen on the external walls
Access to the following areas is prohibited: N/A
The following unutilities must be disconnected: <input type="checkbox"/> Electricity <input type="checkbox"/> Water <input type="checkbox"/> Gas

Table 5 – Inspection Team Data

Name: Dr. Thomas ZILLY
Title: Senior Field Security Officer – Structural Engineering
Inspection date: May 24, 2023
Signature: 

Damage, usability and posting classification of buildings:

<u>Posting Classification</u>	<u>Usability</u>	<u>Damage State</u>
<u>SAFE FOR USE (Green)</u>	Usable with possible restrictions	1-2 = Non - Slight
<p>The original seismic capacity of the building has not materially decreased, and 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.</p>		
<u>UNSAFE FOR USE (YELLOW)</u>	Unusable - retrofitting required	2 – 3 = Moderate - Heavy
<p>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.</p>		
<u>DANGEROUS FOR USE (RED)</u>	Unusable	3 – 4 = Severe - Total
<p>Building is unsafe as subject to collapse. Severe structural damage or partial failure has occurred. Entry prohibited (except by authorities) and building surroundings shall be protected. This posting does not necessarily imply demolition of the building. Decision on possible repair or demolition should be made after engineering evaluation of technical possibilities and their economic consequences.</p>		

PHOTOS



OUTSIDE
On the building external walls are huge cracks to note on the plaster and cracks on columns.
Some soil settlement is to note on the surrounding area of the building.



On a column of the external wall was a crack observed



On another column of the external wall was also a crack observed



On the corner of the building was a crack on the column of the external wall observed



On another column of the external wall was also a crack observed (right side of the photo)



On another column of the external wall was also a crack observed



STAIRCASE AREA

The stairs and the walls, floors and ceiling of the staircase area were recently repaired, and no visual damages were observed



INSIDE THE STAFF APARTMENT

On the structural system of the staff apartment were no visual damages observed, as the building repair works are almost finished



Inside the staff apartment were no structural damages observed, as the repair works are finished inside the apartments.



On an apartment below the roof, was no damage on the roof system observed