





<u>Support Action for Strengthening PAlestine</u> capabilities for seismic <u>Risk Mitigation</u>

SASPARM 2.0

2013

Example on the compilation of forms for existing buildings

PRACTITIONERS









Reference Building











Example of how compile the form

GENERAL FORM FOR THE BUILDING PRACTITIONERS

Name of		mpiler <u> J A</u> P H		A _I LI IDIA IE	B _I B _I E _I E _I K				
		<u> </u>						·	
_		ation of the							
Municipa	ality [V _I A _I B _I L _I I	J _S	لللللا		الالالالالا			
Street na	ame [البالبا	حلتات	لللللا	للللل	لللاللا	Stre	et number 0	9 8 2
Name of the build									0003
		oordinates (W	GS 84 System)			132113			
Position	of Buic	ling:							
1 (8)	Isolated	d Building	2C	Internal Building		3 O End Building	,	4 O Comer I	Building
2) De	scrip	tion of the B						-	
N° Tota		Average of	trics	f floor area [m²]	Age			Exposure	
floors w baseme	dth	floor height [m]	Average	i iloor area (iii-)	and renovation [max 2]	Type of Use	N° units of use	% of Use	Occupants
O1809	1	O < 2.50	A O < 50	I 3 401 ÷500	1 🗖 ≤ 1919	☐ Productive		в 🕉 30:65%	0 0 Xi Xi 1 1
0201	0 2	3 2.50÷3.50	B ◯ 51 ÷ 70	L ≫ 501 ⊹650	2 🗖 19 ÷ 45	☐ Trade		c O < 30%	2 2 2 3 3 3
0301	20	O 3.51÷5.0	c O 71 ÷ 100	M ○ 651 ÷900	3 46 ÷ 61	Offices		D O Under	4 4 4 5 5 5
0401	- I.	O > 5.0	DO 101 ÷ 130	N O 901 ÷1200	4 1 62 ÷ 71	☐ Public Service ☑ Deposit		Construction	6 6 6
05 0		l° Basements	E O 131 ÷ 170 F O 171 ÷ 230	o O 1201 ÷1600 P O 1601 ÷2200	5 72 ÷ 81 6 81 ÷ 91	Strategic	<u>5</u>	E O Unfinished	7 7 7 8 X 8
O6 O7	- 12	≫ 0 c ○ 2	G O 231 ÷ 300	o O 2201 ÷3000	7 291+02	Touristic -		F O Abandoned	9 9 9
08	100	O1 pO≥3	н ○ 301÷ 400	R O > 3000	8 🖎 ≥ 2002	Accomodation	Property	AO Public	B ⊗ Private
3) Stru		15-1-			•				
3) Str	ictura	ii Data		000 00 0000					
					ructure of the	Building			
			ling is in reinford						
, ury	rced	B.1 U 1	he building has	no walls at floors:	4	B.2 2 T	he building 2012	has partially walls a	t floors:
Masonry	Reinforced	J.	20 00 000			U 1	A 2	N==0000	
-	α,	15	□ 6	7	8	□ 5	□ 6	1 7	□ 8

Horizontal Structure					Roof			
Not identified	Solid slab with drop beams	Reinforced concrete ribbed slab	Reinforced concrete slab	Steel concrete slab	Heavy and flat	Heavy and sloped	Light and flat	Light and sloped
0		XI			⊗	0	0	0

4) Regularity					
In p	lan	In elevation			
Regular	Not regular	Regular	Not regular		
0	- 80	0	- 80		

5) Geomorphological Data								
	Morphology site Landslides							
Ridge	Strong slope	Slight slope	Lowland	Absent	Existing	Category of soil foundation		
0	0	⊗	0	80	0	C		

6)	Notes	
		Building Code including the street no and building no: 412-0982-003
L		

Date 2 0 1 5 / 1 0 / 1 2	JALAL AL DABBEEK	Sign of the Compiler
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Section 1: Identification of the Building

Name of the compiler J A L A L A	<u> L D A B B </u> E	<u> E K </u>	
Education level P H D			
1) Identification of the Building			
Municipality N A B L U S			
Street name	_	Str	eet number <u> 0 9 8 2 </u>
Name of the building			003
Geographical Coordinates (WGS 84 System)	int V	at. N 3 2 1 3 1 4 , 0 ong. E 3 5 1 4 1 3 , 8	·
Position of Buiding :			
1 ⊘ Isolated Building 2 ○	Internal Building	3 O End Building	4 O Corner Building

Before starting the compilation of the form, define yourself with *Name* and *Educational Level*.









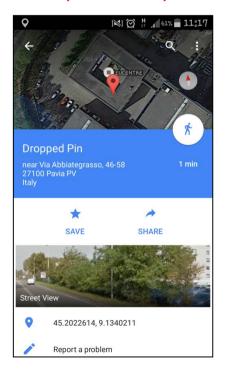
Identification of the Building: Geographical Coordinates

Geographical Coordinates (WGS 84 System)

Lat. | N | 3 | 2 | 1 | 3 | 1 | 4 | , | 0 | 7 | 1 |

Long. |E|3|5|1|4|1|3|, |8|5|1|

Geographical Coordinates (Android):



Geographical Coordinates (IOS):



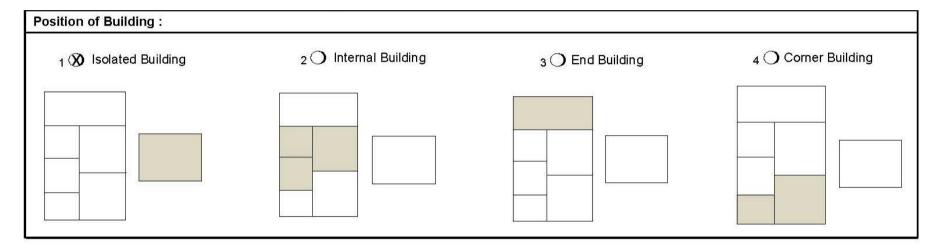








Identification of the Building: Position of Building



- √ To point out link/connection between buildings
- ✓ Useful element to understand structural interaction and evaluate vulnerability









Identification of the Building: Position of Building

- Isolated Building
- Internal Buildings















Section 2: Description of Building

Metrics, Age of construction, Use – Exposure, Property

2) Descr	iption of the B	uilding		BC Y							
	Ме	trics		Age		Use - Exposure					
N° Total floors with	Average of floor height			Construction and renovation [max 2]	Type of Use	N° units of use	% of Use	Occupants		nts	
basement	[m]				⊠ Housing	<u> 1 9 </u>	A O > 65%	100	10	1 XI	
O1 Ø 9	1 O < 2.50	A 🔾 < 50	ı 🔾 401 ÷500	1 🗖 ≤ 1919	☐ Productive		в 🕉 30÷65%	X	0	1	
O2O10	2 8 2.50÷3.50	в 🔾 51 ÷ 70	L ॐ 501 ÷650	2 1 19 ÷ 45	☐ Trade		c O < 30%	2	2	2	
O3O11	з 🔾 3.51÷5.0	c ○ 71 ÷ 100	м <mark>О</mark> 651 ÷900	з □ 46 ÷ 61	☐ Offices		D O Under	3	3 4	3 4	
O4O12	4 🔾 > 5.0	D O 101 ÷ 130	N ◯ 901 ÷1200	4 □ 62 ÷ 71	Public Service		Construction		5	5	
O5 O>12		EO 131 ÷ 170	o 🔾 1201 ÷1600	5 🖵 72 ÷ 81	[X] Deposit	<u> </u>	E O Unfinished	7	6 7	6 7	
О6	N° Basements	F ◯ 171 ÷ 230	P O 1601 ÷2200	6 🖵 81 ÷ 91	Strategic		F O Abandoned	8	¥	8	
O 7	A ∅ 0cO2	G ○ 231 ÷ 300	Q O 2201 ÷3000	7 🖵 91 ÷ 02	🔲 Touristic -			9	9	9	
100 to 10	B ○ 1 D ○ ≥3	н 🔾 301÷ 400	R O > 3000	8 🖾 ≥ 2002	Accomodation	Property	AO Public	в 🕸	Priv	ate ′	



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Description of Building: Metrics

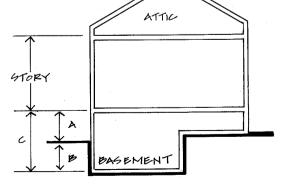
N° of floor

2) Description of the Building									
	Metrics								
N° Total floors with basement	Average of floor height [m]	Average o	f floor area [m²]						
O1 3 99	1 🔾 < 2.50	a O < 50	ı ○ 401 ÷500						
O2O10	2 🕸 2.50÷3.50	в 🔾 51 ÷70	L ॐ 501 ÷650						
O3O11	з 🔾 3.51÷5.0	c 🔾 71 ÷ 100	м ^О 651 ÷900						
O4O12	4 O > 5.0	D O 101 ÷ 130	N \bigcirc 901 ÷1200						
O5 O>12		E○ 131 ÷ 170	o 🔾 1201 ÷1600						
О6	N° Basements	F 🔾 171 ÷ 230	Р 🔾 1601 ÷2200						
O 7	A ॐ 0c○2	G 🔾 231 ÷ 300	Q 2201 ÷3000						
О8	вО1 вО≥3	н 🔾 301÷ 400	R ○ > 3000						





If A<B → C basement





BASEMENT



ort Action for strengthening PAlestine capabilities for seismic Risk Mitigation
Project co-funded by ECHO - Humanitarian Aid and Civil Protection







Description of the Building: *Metrics*

2) Descr	2) Description of the Building								
	Metrics								
N° Total floors with basement	Average of floor height [m]	Average o	f floor area [m²]						
O1 % 9	1 O < 2.50	a 🔾 < 50	ı ○ 401 ÷500						
O2O10	2 🕸 2.50÷3.50	в 🔾 51 ÷70	L ॐ 501 ÷650						
O3O11	з 🔾 3.51÷5.0	c ○ 71 ÷ 100	м <mark>О</mark> 651 ÷900						
O4O12	4 O > 5.0	D O 101 ÷ 130	N 🔾 901 ÷1200						
O5 O>12		E 🔾 131 ÷ 170	o 🔾 1201 ÷1600						
О6	N° Basements	F 🔾 171 ÷ 230	р 🔾 1601 ÷2200						
O7	A ∅ 0c○2	G 🔾 231 ÷ 300	Q 2201 ÷3000						
O8	вО1 рО≥3	н 🔾 301÷ 400	R 🔾 > 3000						

- ✓Indicate the average floor height
- ✓Indicate the floor area









Description of the Building: Age

Age

Construction and renovation [max 2]

- 1 □ ≤ 1919
- 2 **1**9 ÷ 45
- з 🖵 46 ÷ 61
- 4 🖵 62 ÷ 71
- 5 **1** 72 ÷ 81
- 6 🚨 81 ÷ 91
- 7 🖵 91 ÷ 02
- 8 🖾 ≥ 2002

Period in which building was built or when it has been subjected to a **significant restoration** (structural part).

Remember: max 2 choices!



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<u>Description of Building: Use – Exposure and Property</u>

- ✓ Select all kind of use taking place in the building and its related number of units.
- ✓ % Use: indicate % use for spatial and/or temporal term according to 3 levels or, if building is not used, choose among 3 alternatives.
- Occupants: indicate the number of persons that are usually present in the building.
- ✓ Type of Property: public or private.

	Use -	Exposure			
Type of Use	N° units of use	% of Use	Occ	upa	nts
XI Housing	1 9	A O > 65%	100	10	1
Productive		в 👀 30÷65%	0 X	1	X 1
☐ Trade	1 1 1	C O < 30%	2	2	2
Offices		D O Under	3	3 4	3 4
Public Service		Construction	5	5	5
X Deposit	5	E O Unfinished	6 7	6 7	6 7
Strategic		F O Abandoned	8	×	8
Touristic -		r O Aballuolleu	9	9	9
Accomodation	Property	AO Public	в⊗	Priv	/ate











Section 3: Structural Data – Vertical Structure of the Building

3) Str	3) Structural Data											
	Vertical Structure of the Building											
		If the build	ling is in reinf	orced concret	e:							
_	pe	В.1 □ Т	he building ha	as no walls at	floors:	в.2 Х	The building h	as partially wal	lls at floors:			
Masonry	Reinforced Concrete	□ 1	 2	 3	□ 4	□ 1	X 2	X 3	□ 4			
Ma	Rei	□ 5	□ 6	7	□ 8	□ 5	 6	 7	□ 8			
	3	_ 9	1 0	1 1	□ ≥12	_ 9	1 0	1 1	□ ≥12			
Α	В (В.3 🛄 Т	he building is	composed tot	ally by walls	B.4 🚨	The building h	as RC shear w	alls			

- 1 Reinforced Concrete
- 2 The building has partially walls at 2nd and 3rd floors



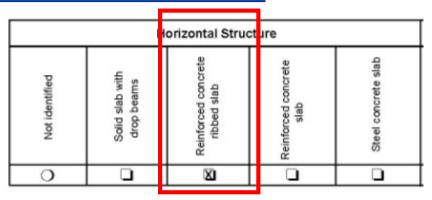




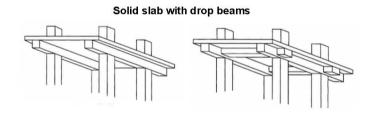


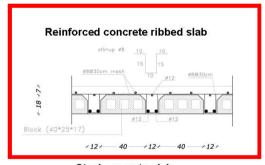


Section 3: Horizontal Structure

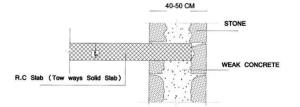


Type of slabs

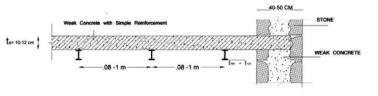




Reinforced concrete slab







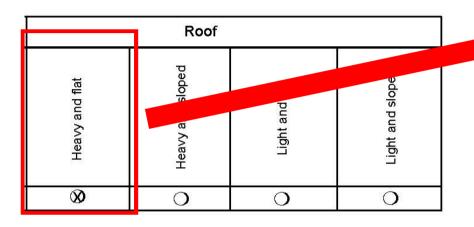








Section 3: Horizontal Structure

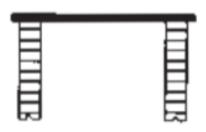




Heavy: reinforced concrete roof or roof with water tanks

<u>Light</u>: steel or wood roof without water tanks and/or heavy plates/tiles such as natural stone





Sloped











Section 4: Regularity (UNI EN 1998-1:2005)

4) Regularity							
In pl	an	In elevation					
Regular Not regular		Regular	Not regular				
0	80	0	⊗				



In plan: Not regular

- √The building plan is not symmetrical, with respect to two orthogonal axes.
- √The building plan has re-entrant corners and edge recesses.

In elevation: Not regular

- ✓ Soft story at 2nd and 3th floors.
- ✓ Vertical structural elements are not continuous from foundation to roof or reduce gradually, from the base to the top of the building









Section 5: Geomorphological Data

5) Geomorphological Data								
Morphology site			Landslides		Category of			
Ridge	Strong slope	Slight slope	Lowland	Absent	Existing	soil foundation		
0	0	80	0	⊗	0	C		

Category of soil foundation

- **✓UNI EN 1998-1:2005**
- ✓ Jordanian Building Code (in accordance with UBC97)









Section 6: Notes

- ✓ Optional Field, if you want to describe building's features in more details.
- ✓ Remember to input the date and your signature.
- ✓ At the end of the form, quick information and the meaning of each section are available.









Thank you for your attention!

