

WHE-PAGER PROJECT: BUILDING CONSTRUCTION VULNERABILITY AND INVENTORY

This form is divided into 3 parts:

- Part I: Contributors' Information**
- Part II: Summary of Construction Types, Vulnerability and Population**
- Part III: Colleagues Consulted, Additional Sources of Information Used**

PART I: Contributors' Information

1. Country or Region (if you are only responding for part of a country, please indicate which geographic region.
 Note: the WHE strongly prefers national estimates, unless you have data that clearly apply to only one region):

Republic of Macedonia

2. Name(s) of Contributors

Mihail Garevski, Professor

3. Affiliation (Organization)

Institute of Earthquake Engineering and Engineering Seismology (IZIIS-Skopje)

4. Mailing address (include city and country)

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5. E-mail

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6. Your self-rating of expertise or confidence: On a scale of 1=low and 5=high, please estimate your level of expertise:

5

Part II: Summary of Construction Types, Vulnerability and Population

Construction Material (choose from drop-down list)	Construction Subtype (Choose from drop-down list--refer to instructions to see complete list)	Probability of collapse (%) of building type when subjected to the specified shaking intensity				Fraction of population who LIVES in this building type		Fraction of population who WORKS in this building type		Peak average # of occupants per building
		IX (-0.65-1.24g)	VIII (-0.34-0.65g)	VII (-0.18-0.34g)	VI (-0.092-0.18g)	urban	rural	urban	rural	
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For other combinations, use blank fields below:										
21	Masonry Rubble stone in mud or lime mortar or without mortar	75	40	15	5	1	5	0	0	3-5
22	Masonry Mud walls	90	70	25	5	1	5	0	0	3-5
23	Masonry Unreinforced brick masonry in mud mortar	70	35	12	2	5	15	0	0	3-5

24	Masonry	Unreinforced brick masonry in cement mortar with reinforced concrete floor/roof slabs	50	25	6	1	5	15	1	5	12-15
25	Masonry	Confined brick/block masonry with concrete posts/tie columns and beams	10	6	1	0	20	30	5	40	20-25
26	Structural concrete	Concrete moment resisting frames designed for gravity loads only	35	10	2	0	15	5	25	2	80-100
27	Structural concrete	Concrete moment resisting frames designed with seismic features	12	4	1	0.1	25	5	20	10	150-200
	Structural concrete	Concrete moment resisting frame with concrete shear walls--dual system	7	2	0.2	0	25	3	30	5	200-300
	Structural concrete	Concrete shear walls cast in-situ	3	1	0.1	0	5	0	2	0	300-350

Part III: Colleagues Consulted, Additional Sources of Information Used

1 Name

Affiliation

Mailing address

e-mail

2 Name

Affiliation

Mailing address

e-mail

3 Name

Affiliation

Mailing address

e-mail

4 Sources of information you used (websites, publications, etc.) Please provide as much detail as possible.

State Statistical Office of Republic of Macedonia (http://www.stat.gov.mk/english/glavna_eng.asp); Catalog of publications (<http://www.stat.gov.mk/english/katalog.asp>)
 IZIIS-Skopje, Damage and loss surveys following 1963 Skopje and 1967 Debar (Macedonia), 1969 Banja Luka (Bosnia and Herzegovina), 1979 Montenegro, 1980 Kopaonik (Serbia), 1986 Knin (Croatia), 1990 Gevgelia and 1994 Bitola (Macedonia) earthquakes

5 Additional comments