

The GEM Building Taxonomy is a uniform classification scheme of buildings across the globe. It will be used as a basis for assessing the risk from earthquakes within the scope of GEM. It also facilitates global collaboration and growing of our joint knowledge on the diversity and seismic vulnerability of all the buildings that exist around the globe.

Please fill out the following form by describing a specific building or building typology in your country. Fill out information for as many attributes as possible. Save form (Lastname_buildingtypology.pdf) and email to taxonomy@eeri.org

For more information on the taxonomy and the fields, visit the online GEM Building Taxonomy Glossary <http://www.nexus.globalquakemodel.org/gem-building-taxonomy/overview>

Note: This form will work best if you can save it and then open/use it in Adobe Acrobat. If you save the file in Preview, text in some of the fields may disappear, and only reappear when you click in the field. This is an issue with Apple Preview software. The data can still be extracted by the Taxonomy Team after it has been emailed to us.

Report Title:

Authors:

Country:

Region:

Summary of building Typology

Very common residential buildings, found mostly in big towns, 30-50 years old, 5-15 stories, elongated in plan, organized in relatively big neighborhoods.

Additional comments on building. A typical residential building? Found only in certain regions?

Direction	
Direction X	<input checked="" type="radio"/> Unspecified Direction
	<input type="radio"/> Structural system parallel to street

Material of the Lateral Load-Resisting System in Direction X

Material type	Material technology	Material properties
<input type="radio"/> Unknown material		
<input type="radio"/> Concrete, unknown reinforcement		
<input type="radio"/> Concrete, unreinforced		
<input checked="" type="radio"/> Concrete, reinforced	<input type="radio"/> Unknown concrete technology	
	<input type="radio"/> Cast-in-place concrete	
	<input checked="" type="radio"/> Precast concrete	
	<input type="radio"/> Cast-in-place prestressed concrete	
	<input type="radio"/> Precast prestressed concrete	
<input type="radio"/> Concrete, composite with steel section		
<input type="radio"/> Steel	<input type="radio"/> Steel, unknown	<input type="radio"/> Steel connections, unknown
	<input type="radio"/> Cold-formed steel members	<input type="radio"/> Welded connections
	<input type="radio"/> Hot-rolled steel members	<input type="radio"/> Riveted connections
	<input type="radio"/> Steel, other	<input type="radio"/> Bolted connections
<input type="radio"/> Metal (except steel)	<input type="radio"/> Metal, unknown	
	<input type="radio"/> Iron	
	<input type="radio"/> Metal, other	
<input type="radio"/> Masonry, unknown reinforcement	<input type="radio"/> Masonry unit, unknown	<input type="radio"/> Mortar type unknown
	<input type="radio"/> Adobe blocks	<input type="radio"/> No mortar
	<input type="radio"/> Stone, unknown type	<input type="radio"/> Mud mortar
	<input type="radio"/> Rubble (field stone) or semi-dressed stone	<input type="radio"/> Lime mortar
	<input type="radio"/> Dressed stone	<input type="radio"/> Cement mortar
	<input type="radio"/> Fired clay unit, unknown type	<input type="radio"/> Cement:lime mortar
	<input type="radio"/> Fired clay solid bricks	<input type="radio"/> Stone, unknown type
	<input type="radio"/> Fired clay hollow bricks	<input type="radio"/> Limestone
	<input type="radio"/> Fired clay hollow blocks or tiles	<input type="radio"/> Sandstone
	<input type="radio"/> Concrete blocks, unknown type	<input type="radio"/> Tuff
	<input type="radio"/> Concrete blocks, solid	<input type="radio"/> Slate
	<input type="radio"/> Concrete blocks, hollow	<input type="radio"/> Granite
	<input type="radio"/> Masonry unit, other	<input type="radio"/> Basalt
		<input type="radio"/> Stone, other type
<input type="radio"/> Masonry, unreinforced	<input type="radio"/> Masonry unit, unknown	<input type="radio"/> Mortar type unknown
	<input type="radio"/> Adobe blocks	<input type="radio"/> No mortar
	<input type="radio"/> Stone, unknown type	<input type="radio"/> Mud mortar
	<input type="radio"/> Rubble (field stone) or semi-dressed stone	<input type="radio"/> Lime mortar
	<input type="radio"/> Dressed stone	<input type="radio"/> Cement mortar
	<input type="radio"/> Fired clay unit, unknown type	<input type="radio"/> Cement:lime mortar
	<input type="radio"/> Fired clay solid bricks	<input type="radio"/> Stone, unknown type
	<input type="radio"/> Fired clay hollow bricks	<input type="radio"/> Limestone
	<input type="radio"/> Fired clay hollow blocks or tiles	<input type="radio"/> Sandstone
	<input type="radio"/> Concrete blocks, unknown type	<input type="radio"/> Tuff
	<input type="radio"/> Concrete blocks, solid	<input type="radio"/> Slate
	<input type="radio"/> Concrete blocks, hollow	<input type="radio"/> Granite
	<input type="radio"/> Masonry unit, other	<input type="radio"/> Basalt
		<input type="radio"/> Stone, other type
<input type="radio"/> Masonry, confined	<input type="radio"/> Masonry unit, unknown	<input type="radio"/> Mortar type unknown
	<input type="radio"/> Adobe blocks	<input type="radio"/> No mortar
	<input type="radio"/> Stone, unknown type	<input type="radio"/> Mud mortar
	<input type="radio"/> Rubble (field stone) or semi-dressed stone	<input type="radio"/> Lime mortar
	<input type="radio"/> Dressed stone	<input type="radio"/> Cement mortar
	<input type="radio"/> Fired clay unit, unknown type	<input type="radio"/> Cement:lime mortar
	<input type="radio"/> Fired clay solid bricks	<input type="radio"/> Stone, unknown type
	<input type="radio"/> Fired clay hollow bricks	<input type="radio"/> Limestone
	<input type="radio"/> Fired clay hollow blocks or tiles	<input type="radio"/> Sandstone
	<input type="radio"/> Concrete blocks, unknown type	<input type="radio"/> Tuff
	<input type="radio"/> Concrete blocks, solid	<input type="radio"/> Slate
	<input type="radio"/> Concrete blocks, hollow	<input type="radio"/> Granite
	<input type="radio"/> Masonry unit, other	<input type="radio"/> Basalt
		<input type="radio"/> Stone, other type

<input type="radio"/>	Masonry, reinforced	<input type="radio"/> Masonry unit, unknown	<input type="radio"/> Mortar type unknown
		<input type="radio"/> Adobe blocks	<input type="radio"/> No mortar
		<input type="radio"/> Stone, unknown type	<input type="radio"/> Mud mortar
		<input type="radio"/> Rubble (field stone) or semi-dressed stone	<input type="radio"/> Lime mortar
		<input type="radio"/> Dressed stone	<input type="radio"/> Cement mortar
		<input type="radio"/> Fired clay unit, unknown type	<input type="radio"/> Cement:lime mortar
		<input type="radio"/> Fired clay solid bricks	<input type="radio"/> Stone, unknown type
		<input type="radio"/> Fired clay hollow bricks	<input type="radio"/> Limestone
		<input type="radio"/> Fired clay hollow blocks or tiles	<input type="radio"/> Sandstone
		<input type="radio"/> Concrete blocks, unknown type	<input type="radio"/> Tuff
		<input type="radio"/> Concrete blocks, solid	<input type="radio"/> Slate
		<input type="radio"/> Concrete blocks, hollow	<input type="radio"/> Granite
		<input type="radio"/> Masonry unit, other	<input type="radio"/> Basalt
		<input type="radio"/> Masonry reinforcement, unknown	<input type="radio"/> Stone, other type
		<input type="radio"/> Steel-reinforced	
		<input type="radio"/> Wood-reinforced	
		<input type="radio"/> Bamboo-, cane- or rope -reinforced	
		<input type="radio"/> Reinforced composite mesh	
		<input type="radio"/> Reinforced concrete bands	
		<input type="radio"/>	Earth, unknown reinforcement
<input type="radio"/> Rammed earth			
<input type="radio"/> Cob or wet construction			
<input type="radio"/> Earth technology, other			
<input type="radio"/>	Earth, unreinforced	<input type="radio"/> Unknown earth technology	
		<input type="radio"/> Rammed earth	
		<input type="radio"/> Cob or wet construction	
		<input type="radio"/> Earth technology, other	
<input type="radio"/>	Earth, reinforced	<input type="radio"/> Unknown earth technology	
		<input type="radio"/> Rammed earth	
		<input type="radio"/> Cob or wet construction	
		<input type="radio"/> Earth technology, other	
<input type="radio"/>	Wood	<input type="radio"/> Wood, unknown	
		<input type="radio"/> Heavy wood	
		<input type="radio"/> Light wood members	
		<input type="radio"/> Solid wood	
		<input type="radio"/> Wattle and daub	
		<input type="radio"/> Bamboo	
<input type="radio"/> Wood, other			
<input type="radio"/>	Other material		

Lateral System in Direction X

Type of lateral load-resisting system		System ductility	
<input type="radio"/>	Unknown lateral load-resisting system		
<input type="radio"/>	No lateral load-resisting system		
<input type="radio"/>	Moment frame	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Infilled frame	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Braced frame	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Post and beam	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input checked="" type="radio"/>	Wall	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input checked="" type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Dual frame-wall system	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Flat slab/plate or waffle slab	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Infilled flat slab/plate or infilled waffle slab	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Hybrid lateral load-resisting system	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Other lateral load-resisting system	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices

Leave Direction Y blank if lateral load-resisting system is same in both directions

Direction	
Direction Y	<input type="radio"/> Unspecified Direction
	<input type="radio"/> Structural system perpendicular to the street

Material of the Lateral Load-Resisting System in Direction Y

Material type		Material technology	Material properties
<input type="radio"/>	Unknown material		
<input type="radio"/>	Concrete, unknown reinforcement		
<input type="radio"/>	Concrete, unreinforced		
<input type="radio"/>	Concrete, reinforced	<input type="radio"/> Unknown concrete technology	
		<input type="radio"/> Cast-in-place concrete	
		<input type="radio"/> Precast concrete	
		<input type="radio"/> Cast-in-place prestressed concrete	
		<input type="radio"/> Precast prestressed concrete	
<input type="radio"/>	Concrete, composite with steel section		
<input type="radio"/>	Steel	<input type="radio"/> Steel, unknown	<input type="radio"/> Steel connections, unknown
		<input type="radio"/> Cold-formed steel members	<input type="radio"/> Welded connections
		<input type="radio"/> Hot-rolled steel members	<input type="radio"/> Riveted connections
		<input type="radio"/> Steel, other	<input type="radio"/> Bolted connections
<input type="radio"/>	Metal (except steel)	<input type="radio"/> Metal, unknown	
		<input type="radio"/> Iron	
		<input type="radio"/> Metal, other	
<input type="radio"/>	Masonry, unknown reinforcement	<input type="radio"/> Masonry unit, unknown	<input type="radio"/> Mortar type unknown
		<input type="radio"/> Adobe blocks	<input type="radio"/> No mortar
		<input type="radio"/> Stone, unknown type	<input type="radio"/> Mud mortar
		<input type="radio"/> Rubble (field stone) or semi-dressed stone	<input type="radio"/> Lime mortar
		<input type="radio"/> Dressed stone	<input type="radio"/> Cement mortar
		<input type="radio"/> Fired clay unit, unknown type	<input type="radio"/> Cement:lime mortar
		<input type="radio"/> Fired clay solid bricks	<input type="radio"/> Stone, unknown type
		<input type="radio"/> Fired clay hollow bricks	<input type="radio"/> Limestone
		<input type="radio"/> Fired clay hollow blocks or tiles	<input type="radio"/> Sandstone
		<input type="radio"/> Concrete blocks, unknown type	<input type="radio"/> Tuff
		<input type="radio"/> Concrete blocks, solid	<input type="radio"/> Slate
		<input type="radio"/> Concrete blocks, hollow	<input type="radio"/> Granite
		<input type="radio"/> Masonry unit, other	<input type="radio"/> Basalt
			<input type="radio"/> Stone, other type
<input type="radio"/>	Masonry, unreinforced	<input type="radio"/> Masonry unit, unknown	<input type="radio"/> Mortar type unknown
		<input type="radio"/> Adobe blocks	<input type="radio"/> No mortar
		<input type="radio"/> Stone, unknown type	<input type="radio"/> Mud mortar
		<input type="radio"/> Rubble (field stone) or semi-dressed stone	<input type="radio"/> Lime mortar
		<input type="radio"/> Dressed stone	<input type="radio"/> Cement mortar
		<input type="radio"/> Fired clay unit, unknown type	<input type="radio"/> Cement:lime mortar
		<input type="radio"/> Fired clay solid bricks	<input type="radio"/> Stone, unknown type
		<input type="radio"/> Fired clay hollow bricks	<input type="radio"/> Limestone
		<input type="radio"/> Fired clay hollow blocks or tiles	<input type="radio"/> Sandstone
		<input type="radio"/> Concrete blocks, unknown type	<input type="radio"/> Tuff
		<input type="radio"/> Concrete blocks, solid	<input type="radio"/> Slate
		<input type="radio"/> Concrete blocks, hollow	<input type="radio"/> Granite
		<input type="radio"/> Masonry unit, other	<input type="radio"/> Basalt
			<input type="radio"/> Stone, other type
<input type="radio"/>	Masonry, confined	<input type="radio"/> Masonry unit, unknown	<input type="radio"/> Mortar type unknown
		<input type="radio"/> Adobe blocks	<input type="radio"/> No mortar
		<input type="radio"/> Stone, unknown type	<input type="radio"/> Mud mortar
		<input type="radio"/> Rubble (field stone) or semi-dressed stone	<input type="radio"/> Lime mortar
		<input type="radio"/> Dressed stone	<input type="radio"/> Cement mortar
		<input type="radio"/> Fired clay unit, unknown type	<input type="radio"/> Cement:lime mortar
		<input type="radio"/> Fired clay solid bricks	<input type="radio"/> Stone, unknown type
		<input type="radio"/> Fired clay hollow bricks	<input type="radio"/> Limestone
		<input type="radio"/> Fired clay hollow blocks or tiles	<input type="radio"/> Sandstone
		<input type="radio"/> Concrete blocks, unknown type	<input type="radio"/> Tuff
		<input type="radio"/> Concrete blocks, solid	<input type="radio"/> Slate
		<input type="radio"/> Concrete blocks, hollow	<input type="radio"/> Granite
		<input type="radio"/> Masonry unit, other	<input type="radio"/> Basalt
			<input type="radio"/> Stone, other type

<input type="radio"/>	Masonry, reinforced	<input type="radio"/> Masonry unit, unknown	<input type="radio"/> Mortar type unknown
		<input type="radio"/> Adobe blocks	<input type="radio"/> No mortar
		<input type="radio"/> Stone, unknown type	<input type="radio"/> Mud mortar
		<input type="radio"/> Rubble (field stone) or semi-dressed stone	<input type="radio"/> Lime mortar
		<input type="radio"/> Dressed stone	<input type="radio"/> Cement mortar
		<input type="radio"/> Fired clay unit, unknown type	<input type="radio"/> Cement:lime mortar
		<input type="radio"/> Fired clay solid bricks	<input type="radio"/> Stone, unknown type
		<input type="radio"/> Fired clay hollow bricks	<input type="radio"/> Limestone
		<input type="radio"/> Fired clay hollow blocks or tiles	<input type="radio"/> Sandstone
		<input type="radio"/> Concrete blocks, unknown type	<input type="radio"/> Tuff
		<input type="radio"/> Concrete blocks, solid	<input type="radio"/> Slate
		<input type="radio"/> Concrete blocks, hollow	<input type="radio"/> Granite
		<input type="radio"/> Masonry unit, other	<input type="radio"/> Basalt
		<input type="radio"/> Masonry reinforcement, unknown	<input type="radio"/> Stone, other type
		<input type="radio"/> Steel-reinforced	
		<input type="radio"/> Wood-reinforced	
		<input type="radio"/> Bamboo-, cane- or rope -reinforced	
		<input type="radio"/> Reinforced composite mesh	
		<input type="radio"/> Reinforced concrete bands	
		<input type="radio"/>	Earth, unknown reinforcement
<input type="radio"/> Rammed earth			
<input type="radio"/> Cob or wet construction			
<input type="radio"/> Earth technology, other			
<input type="radio"/>	Earth, unreinforced	<input type="radio"/> Unknown earth technology	
		<input type="radio"/> Rammed earth	
		<input type="radio"/> Cob or wet construction	
		<input type="radio"/> Earth technology, other	
<input type="radio"/>	Earth, reinforced	<input type="radio"/> Unknown earth technology	
		<input type="radio"/> Rammed earth	
		<input type="radio"/> Cob or wet construction	
		<input type="radio"/> Earth technology, other	
<input type="radio"/>	Wood	<input type="radio"/> Wood, unknown	
		<input type="radio"/> Heavy wood	
		<input type="radio"/> Light wood members	
		<input type="radio"/> Solid wood	
		<input type="radio"/> Wattle and daub	
		<input type="radio"/> Bamboo	
<input type="radio"/> Wood, other			
<input type="radio"/>	Other material		

Lateral System in Direction Y

Type of lateral load-resisting system		System ductility	
<input type="radio"/>	Unknown lateral load-resisting system		
<input type="radio"/>	No lateral load-resisting system		
<input type="radio"/>	Moment frame	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Infilled frame	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Braced frame	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Post and beam	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Wall	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Dual frame-wall system	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Flat slab/plate or waffle slab	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Infilled flat slab/plate or infilled waffle slab	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Hybrid lateral load-resisting system	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices
<input type="radio"/>	Other lateral load-resisting system	<input type="radio"/>	Ductility unknown
		<input type="radio"/>	Ductile
		<input type="radio"/>	Non-ductile
		<input type="radio"/>	Equipped with base isolation and/or supplemental energy dissipation devices

Height

Height			
Number of stories above ground	<input type="radio"/>	Unknown number of storeys	
	<input checked="" type="radio"/>	Range of number of storeys above ground	5-15
	<input type="radio"/>	Exact number of storeys above ground	
	<input type="radio"/>	Approximate number of storeys above ground	
Number of stories below ground	<input type="radio"/>	Unknown number of storeys	
	<input checked="" type="radio"/>	Range of number of storeys below ground	1-2
	<input type="radio"/>	Exact number of storeys below ground	
	<input type="radio"/>	Approximate number of storeys below ground	
Height of ground floor level above grad	<input type="radio"/>	Height above grade unknown	
	<input checked="" type="radio"/>	Range of height of ground floor above grade	2.8-4
	<input type="radio"/>	Exact height of ground floor above grade	
	<input type="radio"/>	Approximate height of ground floor level above grade	
Slope of the ground	<input checked="" type="radio"/>	Unknown slope	
	<input type="radio"/>	Slope of the ground	

Date of Construction or Retrofit

	Date of construction or Retrofit	Year
<input type="radio"/>	Year unknown	
<input type="radio"/>	Exact date of construction or retrofit	
<input checked="" type="radio"/>	Upper and lower bound for the date of construction or retrofit	1960-1980
<input type="radio"/>	Latest possible date of construction or retrofit	
<input type="radio"/>	Approximate date of construction or retrofit	

Occupancy

Building occupancy class - general		Building occupancy class - detail	
<input type="radio"/>	Unknown occupancy type		
<input checked="" type="radio"/>	Residential	<input type="radio"/>	Residential, unknown type
		<input type="radio"/>	Single dwelling
		<input checked="" type="radio"/>	Multi-unit, unknown type
		<input type="radio"/>	2 Units (Duplex)
		<input type="radio"/>	3-4 Units
		<input type="radio"/>	5-9 Units
		<input type="radio"/>	10-19 Units
		<input type="radio"/>	20-49 Units
		<input type="radio"/>	50+ Units
		<input type="radio"/>	Temporary lodging
		<input type="radio"/>	Institutional housing
		<input type="radio"/>	Mobile home
		<input type="radio"/>	Commercial and public
<input type="radio"/>	Retail trade		
<input type="radio"/>	Wholesale trade and storage		
<input type="radio"/>	Offices, professional/technical services		
<input type="radio"/>	Hospital/medical clinic		
<input type="radio"/>	Entertainment		
<input type="radio"/>	Public building		
<input type="radio"/>	Covered parking garage		
<input type="radio"/>	Bus station		
<input type="radio"/>	Railway station		
<input type="radio"/>	Airport		
<input type="radio"/>	Recreation and leisure		
<input type="radio"/>	Mixed use		
		<input type="radio"/>	Mostly residential and commercial
		<input type="radio"/>	Mostly commercial and residential
		<input type="radio"/>	Mostly commercial and industrial
		<input type="radio"/>	Mostly residential and industrial
		<input type="radio"/>	Mostly industrial and commercial
		<input type="radio"/>	Mostly industrial and residential
<input type="radio"/>	Industrial	<input type="radio"/>	Industrial, unknown type
		<input type="radio"/>	Heavy industrial
		<input type="radio"/>	Light industrial
<input type="radio"/>	Agriculture	<input type="radio"/>	Agriculture, unknown type
		<input type="radio"/>	Produce Storage
		<input type="radio"/>	Animal shelter
		<input type="radio"/>	Agricultural processing
<input type="radio"/>	Assembly	<input type="radio"/>	Assembly, unknown type
		<input type="radio"/>	Religious gathering
		<input type="radio"/>	Arena
		<input type="radio"/>	Cinema or concert hall
		<input type="radio"/>	Other gatherings
<input type="radio"/>	Government	<input type="radio"/>	Government, unknown type
		<input type="radio"/>	Government, general services
		<input type="radio"/>	Government, emergency response
<input type="radio"/>	Education	<input type="radio"/>	Education, unknown type
		<input type="radio"/>	Pre-school facility
		<input type="radio"/>	School
		<input type="radio"/>	College/university, offices and/or classrooms
		<input type="radio"/>	College/university, research facilities and/or labs
<input type="radio"/>	Other occupancy type		

Building Position within a Block

Building Position within a Block	
<input type="radio"/>	Detached building
<input checked="" type="radio"/>	One adjacent building
<input type="radio"/>	Corner building
<input type="radio"/>	Three adjacent buildings
<input type="radio"/>	Interior of block

Shape of Building Plan

Shape of Building Plan	
<input type="radio"/>	Unknown plan shape
<input type="radio"/>	Square, solid
<input type="radio"/>	Square, with an interior opening (e.g. a "donut")
<input checked="" type="radio"/>	Rectangular, solid
<input type="radio"/>	Rectangular, with an opening
<input type="radio"/>	L-shape
<input type="radio"/>	A-shape
<input type="radio"/>	B-shape
<input type="radio"/>	Curved, solid (e.g. circular, elliptical, ovoid)
<input type="radio"/>	Circular, with an opening
<input type="radio"/>	Triangular shape, solid
<input type="radio"/>	Triangular shape, with an opening
<input type="radio"/>	E-shape
<input type="radio"/>	F-shape
<input type="radio"/>	H-shape
<input type="radio"/>	S-shape
<input type="radio"/>	T-shape
<input type="radio"/>	U-shape
<input type="radio"/>	X-shape
<input type="radio"/>	Y-shape
<input type="radio"/>	Irregular plan shape

Structural Irregularity

Type of irregularity	Irregularity description
<input type="radio"/> Unknown structural irregularity	
<input checked="" type="radio"/> Regular structure	
<input type="radio"/> Irregular Structure	
Plan irregularity - primary	<input type="radio"/> No plan irregularity
	<input type="radio"/> Torsion eccentricity
	<input checked="" type="radio"/> Re-entrant corner
	<input type="radio"/> Other horizontal irregularity
Plan irregularity - secondary	<input type="radio"/> No plan irregularity
	<input type="radio"/> Torsion eccentricity
	<input type="radio"/> Re-entrant corner
	<input type="radio"/> Other horizontal irregularity
Vertical structural irregularity - primary	<input checked="" type="radio"/> No vertical irregularity
	<input type="radio"/> Soft storey
	<input type="radio"/> Cripple wall
	<input type="radio"/> Short column
	<input type="radio"/> Pounding potential
	<input type="radio"/> Setback
	<input type="radio"/> Change in vertical structure (includes large overhangs)
	<input type="radio"/> Other vertical irregularity
Vertical structural irregularity - secondary	<input type="radio"/> No vertical irregularity
	<input checked="" type="radio"/> Soft storey
	<input type="radio"/> Cripple wall
	<input type="radio"/> Short column
	<input type="radio"/> Pounding potential
	<input type="radio"/> Setback
	<input type="radio"/> Change in vertical structure (includes large overhangs)
	<input type="radio"/> Other vertical irregularity

Exterior Walls

Exterior walls	
<input type="radio"/>	Unknown material
<input checked="" type="radio"/>	Concrete
<input type="radio"/>	Glass
<input type="radio"/>	Earth
<input type="radio"/>	Masonry
<input type="radio"/>	Metal
<input type="radio"/>	Vegetative
<input type="radio"/>	Wood
<input type="radio"/>	Stucco finish on light framing
<input type="radio"/>	Plastic/vinyl, various
<input type="radio"/>	Cement-based boards
<input type="radio"/>	Material of exterior wall, other

Roof

Roof shape	Roof covering	Roof material	Roof type	Roof connections*	
<input type="radio"/> Unknown roof shape	<input type="radio"/> Unknown roof covering	<input type="radio"/> Roof material, unknown			
<input checked="" type="radio"/> Flat	<input checked="" type="radio"/> Concrete roof with no additional covering		<input type="radio"/> Masonry, unknown	Wall/roof diaphragm connection	Roof-wall diaphragm connection unknown
<input type="radio"/> Pitched with gable ends	<input type="radio"/> Clay or concrete tile	<input type="radio"/> Masonry	<input type="radio"/> Vaulted masonry		
<input type="radio"/> Pitched and hipped	<input type="radio"/> Fibre cement or metal tile		<input type="radio"/> Shallow-arched masonry		
<input type="radio"/> Pitched with dormers	<input type="radio"/> Membrane roofing		<input type="radio"/> Composite masonry and concrete roof system		
<input type="radio"/> Monopitch	<input type="radio"/> Slate	<input type="radio"/> Earthen	<input type="radio"/> Earthen, unknown		
<input type="radio"/> Sawtooth	<input type="radio"/> Stone slab		<input type="radio"/> Vaulted earthen roofs		
<input type="radio"/> Curved	<input type="radio"/> Metal sheets	<input checked="" type="radio"/> Concrete	<input type="radio"/> Concrete, unknown		
<input type="radio"/> Complex regular	<input type="radio"/> Wooden and asphalt shingles		<input type="radio"/> Reinforced concrete slabs, flat slabs or plates		
<input type="radio"/> Complex irregular	<input type="radio"/> Vegetative		<input type="radio"/> Reinforced concrete waffle or hollow clay tile coffered reinforced concrete slabs		
<input type="radio"/> Roof Shape, other	<input type="radio"/> Earthen		<input checked="" type="radio"/> Precast concrete roof system with reinforced concrete topping		
	<input type="radio"/> Solar panelled roofs		<input type="radio"/> Precast concrete roof system without reinforced concrete topping		
	<input type="radio"/> Tensile membrane or fabric roof	<input type="radio"/> Metal	<input type="radio"/> Metal, unknown	Roof tie-downs	Roof tie-down unknown
	<input type="radio"/> Roof covering, other		<input type="radio"/> Metal beams or trusses supporting light roofing		
			<input type="radio"/> Metal beams supporting precast concrete slabs		
			<input type="radio"/> Composite steel deck and concrete slab		
		<input type="radio"/> Wood	<input type="radio"/> Wood, unknown		
			<input type="radio"/> Wooden roof structure with light infill or covering		
			<input type="radio"/> Wooden roof structure supporting a heavy flat or domed roof		
			<input type="radio"/> Wood-based sheets on rafters or purlins		
			<input type="radio"/> Plywood panels or other light-weight panels for roof		
			<input type="radio"/> Bamboo, straw or thatch roof		
		<input type="radio"/> Fabric	<input type="radio"/> Fabric, unknown		
		<input type="radio"/> Roof material, other	<input type="radio"/> Inflatable or tensile membrane roof		

Roof connections* - There are two aspects: (a) does the roof have horizontal shear transfer to the walls, and (b) is the roof internally adequately connected? The latter includes Simpson ties preventing wind lift-off. The former is probably sometimes discernible from the street. The latter only by interior inspection.

Floor

Floor material		Floor type		Floor connections
<input type="radio"/>	Floor material non-existent	<input type="radio"/>	No elevated or suspended floor material (single-storey building)	Floor-wall diaphragm connection present
<input type="radio"/>	Floor material, unknown			
<input type="radio"/>	Masonry	<input type="radio"/>	Masonry, unknown	
		<input type="radio"/>	Vaulted masonry	
		<input type="radio"/>	Shallow-arched masonry	
		<input type="radio"/>	Composite cast-in-place reinforced concrete and masonry floor system	
<input type="radio"/>	Earthen	<input type="radio"/>	Earthen, unknown	
<input checked="" type="radio"/>	Concrete	<input type="radio"/>	Concrete, unknown	
		<input type="radio"/>	Cast-in-place beamless reinforced concrete floor	
		<input type="radio"/>	Cast-in-place beam-supported reinforced concrete floor	
		<input checked="" type="radio"/>	Precast concrete floor system with reinforced concrete topping	
		<input type="radio"/>	Precast concrete floor system without reinforced concrete topping	
<input type="radio"/>	Metal	<input type="radio"/>	Metal, unknown	
		<input type="radio"/>	Metal beams, trusses, or joists supporting light flooring	
		<input type="radio"/>	Metal beams supporting precast concrete slabs	
		<input type="radio"/>	Composite steel deck and concrete slab	
<input type="radio"/>	Wood	<input type="radio"/>	Wood, unknown	
		<input type="radio"/>	Wooden beams or trusses and joists supporting light flooring	
		<input type="radio"/>	Wooden beams or trusses and joists supporting heavy flooring	
		<input type="radio"/>	Wood-based sheets on joists or beams	
		<input type="radio"/>	Plywood panels or other light-weight panels for floor	
<input type="radio"/>	Floor material, other			

Foundation

	Foundation System
<input type="radio"/>	Unknown foundation system
<input checked="" type="radio"/>	Shallow foundation, with lateral capacity
<input type="radio"/>	Shallow foundation, no lateral capacity
<input type="radio"/>	Deep foundation, with lateral capacity
<input type="radio"/>	Deep foundation, no lateral capacity
<input type="radio"/>	Foundation, other

Report Title: **Precast reinforced concrete residential buildings Bulgaria**

Authors: **Manya Deyanova**

Country: **Bulgaria**

Region: **Major towns**

Summary of building Typology

Very common residential buildings, found mostly in big towns, 30-50 years old, 5-15 stories, elongated in plan, organized in relatively big neighborhoods.

Comments on missing information:

The outlines of the buildings in plan vary. Mostly the dimensions are $a/b > 1/4$ but there are also L-shaped, H-shaped.

Please use this box to comment on information you feel the taxonomy missed or comments to improve the taxonomy

Please include a photo of your building and save the form as (Lastname_buildingtypology.pdf) and email to taxonomy@eeri.org