

# GEM Building Taxonomy Report

## Precast concrete panel apartment buildings

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### Taxonomy string:

DX /CR+PC /LWAL /DY /CR+PC /LWAL /YBET:1960,1990 /HBET:8,12+HBEX:1+HD:0 /RES+RES2E /BPI /PLFR /IRRE /EWC /RSH1+RMN+RC+RC4 /FC+FC4 /FOSSL

### Material type (direction 1):

Concrete, reinforced

### Material technology (direction 1):

Precast concrete

### Material properties (direction 1):

### Material technology (additional, direction 1):

### Lateral load-resisting system (direction 1):

Wall

### System ductility (direction 1):

Ductility unknown

### Material type (direction 2):

Concrete, reinforced

### Material technology (direction 2):

Precast concrete

### Material properties (direction 2):

### Material technology (additional, direction 2):

### Lateral load-resisting system (direction 2):

Wall

### System ductility (direction 2):

Ductility unknown

### Foundations:

Shallow foundation, with lateral capacity

### Plan shape:

Rectangular, solid

### Type of Irregularity:

Regular structure

### Building position within a block:

Interior of block

### Plan structural irregularity - primary:

### Vertical structural irregularity - primary:

### Plan structural irregularity - secondary:

### Vertical structural irregularity - secondary:

### Roof shape:

Flat

### Roof covering:

No roof covering

### Roof system material:

Concrete

### Roof system type:

Precast concrete roof without RC topping

### Roof connections:

Roof-wall diaphragm connection unknown

### Floor system material:

Concrete

### Floor system type:

Precast concrete floor without RC topping

### Floor connections:

Floor-wall diaphragm connection, unknown

### Exterior walls material:

Concrete

### Date of construction:

Bounds for the date of construction or retro 1960-1990

### Number of storeys above the ground:

Range of the number of storeys 8-12

### Number of storeys below the ground:

Exact number of storeys 1

### Height of the grade above ground floor:

Unknown grade height

### Slope of the ground (for buildings on slopes):

Slope of the ground 0

### Occupancy type - general:

Residential

### Occupancy type - detail:

20-49 Units

### Country:

Romania

### Region:

Bucharest

### Observations:

These multistorey medium to high-rise multifamily residential buildings have in general all walls load-bearing in a so-called honeycomb structure of large panel construction. They resisted well to earthquakes, but stopped to be constructed in 1990.