

GEM Building Taxonomy Report

Reinforced concrete frame structure with diagonal bracing and brick infill walls

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Taxonomy string:

DX /CR+CIP /LFINF /DY /CR+CIP /LFINF /YAPP:1947 /HBET:7,11+HBEX:1+HFBET:21,33+HD:0 /RES+RES2D /BPI /PLFD
/IRIR+IRPP-TOR+IRVP-SOS+IRVS-SET /EWMA /RSH1+RMN+RC+RC2 /FC+FC2 /FOSN

Material type (direction 1):

Concrete, reinforced

Material technology (direction 1):

Cast-in-place concrete

Material properties (direction 1):

Material technology (additional, direction 1):

Lateral load-resisting system (direction 1):

Infilled frame

System ductility (direction 1):

Ductility unknown

Material type (direction 2):

Concrete, reinforced

Material technology (direction 2):

Cast-in-place concrete

Material properties (direction 2):

Material technology (additional, direction 2):

Lateral load-resisting system (direction 2):

Infilled frame

System ductility (direction 2):

Ductility unknown

Foundations:

Shallow foundation, with no lateral capacity

Plan shape:

Triangular shape, solid

Type of Irregularity:

Irregular structure

Building position within a block:

Interior of block

Plan structural irregularity - primary:

Torsion eccentricity

Vertical structural irregularity - primary:

No irregularity

Plan structural irregularity - secondary:

Soft storey

Vertical structural irregularity - secondary:

Setback

Roof shape:

Flat

Roof covering:

No roof covering

Roof system material:

Concrete

Roof system type:

Cast-in-place beam-supported RC roof

Roof connections:

Roof-wall diaphragm connection unknown

Floor system material:

Concrete

Floor system type:

Cast-in-place beam-supported RC floor

Floor connections:

Floor-wall diaphragm connection, unknown

Exterior walls material:

Masonry

Date of construction:

Approximate date of construction or retrofit 1947

Number of storeys above the ground:

Range of the number of storeys 7-11

Number of storeys below the ground:

Exact number of storeys 1

Height of the grade above ground floor:

Range of the grade height 21-33

Slope of the ground (for buildings on slopes):

Slope of the ground 0

Occupancy type - general:

Residential

Occupancy type - detail:

10-19 Units

Country:

Romania

Region:

Bucharest

Observations:

This is a post-war variation of the interwar buildings. It was practiced a rather short time. The main load-bearing system consists of a RC space frame with RC diagonal bracings. Temporary earthquake resistance recommendations of 1941 were followed (German code).