

GEM Building Taxonomy Report

newly built cast-in-place concrete residential building Demeter I.



Taxonomy string:

DX /SRC+CIP /LDUAL /DY /SRC+CIP /LDUAL+DUC /YAPP:2008 /HEX:6+HBEX:1+HFAPP:0+HD:0 /RES+RES2E /BPD /PLFL / /EWMA
/RSH1+RMT3+RC+RC2+RWCP /FC+FC2+FWCP /FOSSL

Material type (direction 1):

Concrete, composite with steel section

Material properties (direction 1):

Lateral load-resisting system (direction 1):

Dual frame-wall system

Material type (direction 2):

Concrete, composite with steel section

Material properties (direction 2):

Lateral load-resisting system (direction 2):

Dual frame-wall system

Foundations:

Shallow foundation, with lateral capacity

Type of Irregularity:

Unknown structural irregularity

Plan structural irregularity - primary:

Plan structural irregularity - secondary:

Roof shape:

Flat

Roof system material:

Concrete

Roof connections:

Roof-wall diaphragm connection present

Floor system material:

Concrete

Floor connections:

Floor-wall diaphragm connection present

Exterior walls material:

Masonry

Date of construction:

Approximate date of construction or retrofit 2008

Number of storeys above the ground:

Exact number of storeys 6

Height of the grade above ground floor:

Approximate height above grade 0

Occupancy type - general:

Residential

Country:

Romania

Summary:

Material technology (direction 1):

Cast-in-place concrete

Material technology (additional, direction 1):

System ductility (direction 1):

Ductility unknown

Material technology (direction 2):

Cast-in-place concrete

Material technology (additional, direction 2):

System ductility (direction 2):

Ductile

Plan shape:

L-shape

Building position within a block:

Detached building

Vertical structural irregularity - primary:

Vertical structural irregularity - secondary:

Roof covering:

Membrane roofing

Roof system type:

Cast-in-place beam-supported RC roof

Floor system type:

Cast-in-place beam-supported RC floor

Number of storeys below the ground:

Exact number of storeys 1

Slope of the ground (for buildings on slopes):

Slope of the ground 0

Occupancy type - detail:

20-49 Units

Region (province, state, etc.):

Timisoara

The structural system is made of cast-in-place steel reinforced concrete columns and reinforced concrete walls. A rather common building typology in recent times.