

# GEM Building Taxonomy Report

## RC Typical Italian Building

G. Vecchi



### Taxonomy string:

DX // /DY /CR+CIP /LFINF+DNO /YBET:1950,1960 /HBET:4,6+HBBET:0,1+HFBET:13,20+HD:0 /MIX+MIX1 /BPI /PLFI

/IRIR+IRPP:TOR+IRPS:TOR+IRVP:CHV+IRVS:CHV /EWMA /RSH1+RMT3+RFA /FO+FWCN /FOSN

Material type (direction 1):

Unknown Material

Material technology (direction 1):

Material properties (direction 1):

Material technology (additional, direction 1):

Lateral load-resisting system (direction 1):

Unknown lateral load-resisting system

System ductility (direction 1):

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):

Non-ductile

Foundations:

Shallow foundation, with no lateral capacity

Plan shape:

Irregular plan shape

Type of Irregularity:

Irregular structure

Building position within a block:

Interior of block

Plan structural irregularity - primary:

Torsion eccentricity

Vertical structural irregularity - primary:

Torsion eccentricity

Plan structural irregularity - secondary:

Change in vertical structure

Vertical structural irregularity - secondary:

Change in vertical structure

Roof shape:

Flat

Roof covering:

Membrane roofing

Roof system material:

Fabric

Roof system type:

inflatable or tensile membrane roof

Roof connections:

Roof-wall diaphragm connection unknown

Floor system type:

Floor system material:

Floor material, other

Floor connections:

Floor-wall diaphragm connection not provided

Exterior walls material:

Masonry

Date of construction:

Bounds for the date of construction or retro 1950-1960

Number of storeys above the ground:

Range of the number of storeys 4-6

Number of storeys below the ground:

Range of the number of storeys 0-1

Height of the grade above ground floor:

Range of height above grade 13-20

Slope of the ground (for buildings on slopes):

Slope of the ground 0

Occupancy type - general:

Mixed use

Occupancy type - detail:

Mostly residential and commercial

Country:

Italy

Region (province, state, etc.):

Pavia

Summary:

Typical Italian RC 4-6 stories building, for residential - commercial use, '50 -'60 built, located in medium -high seismic zone, with non ductile frame, often with short column or soft storage