

# GEM Building Taxonomy Report

PreCast building type 3.3

EMCA working group

## Taxonomy string:

DX /CR+PC /LFLS+DUC /DY /CR+PC /LFLS+DUC /YBET:1980,1990 /HBET:5,9+HBEX:1+HFBET:0.8,1.5+HD:0 /RES+RES2F /BPD /PLFR /IRRE /EWC /RSH1+RMN+RC+RC3+RTDP /FC+FC3+FWCP /FOSDL

## Material type (direction 1):

Concrete, reinforced

## Material properties (direction 1):

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

Flat slab/plate or waffle slab

## Material type (direction 2):

Concrete, reinforced

## Material properties (direction 2):

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

Flat slab/plate or waffle slab

## Foundations:

Deep foundation, with lateral capacity

## Type of Irregularity:

Regular structure

## Plan structural irregularity - primary:

## Plan structural irregularity - secondary:

## Roof shape:

Flat

## Roof system material:

Concrete

## Roof connections:

Roof tie-down present

## Floor system material:

Concrete

## Floor connections:

Floor-wall diaphragm connection present

## Exterior walls material:

Concrete

## Date of construction:

Bounds for the date of construction or retro 1980-1990

## Number of storeys above the ground:

Range of the number of storeys 5-9

## Height of the grade above ground floor:

Range of height above grade 0.8-1.5

## Occupancy type - general:

Residential

## Country:

Unknown

## Summary:

## Material technology (direction 1):

Precast concrete

## Material technology (additional, direction 1):

## System ductility (direction 1):

Ductile

## Material technology (direction 2):

Precast concrete

## Material technology (additional, direction 2):

## System ductility (direction 2):

Ductile

## Plan shape:

Rectangular, solid

## Building position within a block:

Detached building

## Vertical structural irregularity - primary:

## Vertical structural irregularity - secondary:

No irregularity

## Roof covering:

Concrete roof, no covering

## Roof system type:

Precast concrete roof with RC topping

## Floor system type:

Precast concrete floor with RC topping

## 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:

50+ Units

## Region (province, state, etc.):

Central Asia

The floor could be precast monolithic floor (mixed system).