

GEM Building Taxonomy Report

Building Survey Study

Ali Altheeb

Picture not available

Taxonomy string:

DX+PF /CR+CIP /LDUAL+DUC /DY+OF /CR+CIP /LDUAL+DUC /YEX:2009 /HEX:4+HBEX:0+HFAPP:6+HD:0 /EDU+EDU3 /BP3 /PLFSQO /IRRE /EWMA /RSH1+RMTO+RC+RC2+RWCP /FC+FC2 /FOSN

Material type (direction 1):

Concrete, reinforced

Material properties (direction 1):

Lateral load-resisting system (direction 1):

Dual frame-wall system

Material type (direction 2):

Concrete, reinforced

Material properties (direction 2):

Lateral load-resisting system (direction 2):

Dual frame-wall system

Foundations:

Shallow foundation, with no 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-wall diaphragm connection present

Floor system material:

Concrete

Floor connections:

Floor-wall diaphragm connection, unknown

Exterior walls material:

Masonry

Date of construction:

Exact date of construction or retrofit 2009

Number of storeys above the ground:

Exact number of storeys 4

Height of the grade above ground floor:

Approximate height above grade 6

Occupancy type - general:

Education

Country:

Saudi Arabia

Summary:

Material technology (direction 1):

Cast-in-place concrete

Material technology (additional, direction 1):

System ductility (direction 1):

Ductile

Material technology (direction 2):

Cast-in-place concrete

Material technology (additional, direction 2):

System ductility (direction 2):

Ductile

Plan shape:

Square, with an interior opening

Building position within a block:

Three adjacent buildings

Vertical structural irregularity - primary:

Vertical structural irregularity - secondary:

Roof covering:

Roof covering, other

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 0

Slope of the ground (for buildings on slopes):

Slope of the ground 0

Occupancy type - detail:

College/university, offices and/or classrooms

Region (province, state, etc.):

Riyadh

It is a large 4 story building was constructed in 2009. It is a part of a University campus with a typical structural system used all over that university.