

GEM Building Taxonomy Report

Scawthorn Japan - 11

Scawthorn



Taxonomy string:

DX /ER+ETC /LWAL+DNO /DY /ER+ETC /LWAL+DNO /YAPP:1890 /HEX:2+HBEX:0+HFAPP:0.3+HD:0 /OCO /BPD /PLFR /IRRE /EWE /RSH2+RMT1+RWO+RWO2 /FW /FOSN

Material type (direction 1):

Earth, reinforced

Material properties (direction 1):

Lateral load-resisting system (direction 1):

Wall

Material type (direction 2):

Earth, reinforced

Material properties (direction 2):

Lateral load-resisting system (direction 2):

Wall

Foundations:

Shallow foundation, with no lateral capacity

Type of Irregularity:

Regular structure

Plan structural irregularity - primary:

Plan structural irregularity - secondary:

Roof shape:

Pitched with gable ends

Roof system material:

Wood

Roof connections:

Roof-wall diaphragm connection unknown

Floor system material:

Wood

Floor connections:

Floor-wall diaphragm connection, unknown

Exterior walls material:

Earth

Date of construction:

Approximate date of construction or retrofit 1890

Number of storeys above the ground:

Exact number of storeys 2

Height of the grade above ground floor:

Approximate height above grade 0.3

Occupancy type - general:

Other occupancy type

Country:

Japan

Summary:

Material technology (direction 1):

Cob or wet construction

Material technology (additional, direction 1):

System ductility (direction 1):

Non-ductile

Material technology (direction 2):

Cob or wet construction

Material technology (additional, direction 2):

System ductility (direction 2):

Non-ductile

Plan shape:

Rectangular, solid

Building position within a block:

Detached building

Vertical structural irregularity - primary:

Vertical structural irregularity - secondary:

Roof covering:

Clay or concrete tile

Roof system type:

Wooden roof structure supporting a heavy flat or domed roof

Floor system type:

Wood, unknown

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:

Region (province, state, etc.):

Kyoto - Sakyo ku

Typical traditional Japanese storehouse ("kura"), built with thick (approx. 0.6 m) bamboo-reinforced earthen walls, intended for fire resistance (special doors and shuttered windows) to protect foot and valuables storage. More seismically resistant than traditional Japanese house (due to thick walls) nevertheless often heavily damaged in strong shaking.