GEM Building Taxonomy Report

Mud wall with bamboo reinforcement Dr. Kishor Jaiswal, USGS USA



Taxonomy string:

DX /ER+ETC /LWAL+DNO /DY /ER+ETO /LWAL+DNO / /HEX:+HBEX:1+HFAPP:3.5 /RES+RES1 /BPD /PLFSQ /IRRE /EWE

3.5

/RSH5+RMT6+RME+RME1+RTDN /FE+FWCN /FOSN

Material type (direction 1):

Earth, reinforced

Material properties (direction 1):

Lateral load-resisting system (direction 1):

Material type (direction 2):

Earth, reinforced

Material properties (direction 2):

Lateral load-resisting system (direction 2):

Foundations:

Shallow foundation, with no lateral capacity

Type of Irregularity:

Regular structure

Plan structural irregularity - primary:

Plan structural irregularity - secondary:

Roof shape:

Monopitch

Roof system material:

Roof connections:

Roof tie-down not provided

Floor system material:

Earthen

Floor connections:

Floor-wall diaphragm connection not provided

Exterior walls material:

Earth

Date of constrution:

Year unknown

Number of storeys above the ground:

Exact number of storeys

Height of the grade above ground floor:

Approximate height above grade

Occupancy type - general:

Residential

Country: Kenya

Summary:

Material technology (direction 1): Cob or wet construction

Material technology (additional, direction 1):

System ductility (direction 1):

Non-ductile

Material technology (direction 2):

Earth technology, other

Material techonology (additional, direction 2):

System ductility (direction 2):

Non-ductile

Plan shape:

Square, solid

Building position within a block:

Detached building

Vertical structural irregularity - primary:

Vertical structural irregularity - secondary:

Roof covering:

Metal sheets

Roof system type:

Metal beams or trusses supporting light roofing

Floor system type:

Earthen, unknown

Number of storeys below the ground:

Exact number of storeys

Slope of the ground (for buildings on slopes):

Unknown slope

Occupancy type - detail:

Single dwelling

Region (province, state, etc.):

Common in slums and outskirts of Nairobi and rural areas of Kenya