

GEM Building Taxonomy Report

Adobe building type 4.1

EMCA working group

Taxonomy string:

DX /MUR+ADO+MOM /LWAL+DNO /DY /MUR+ADO+MOM /LWAL+DNO /YBET:1850,2012 /HEX:1+HBEX:0+HFBET:0.3,0.5+HD:0 /RES+RES1 /BPD /PLFR /IRIR+IRPP:TOR /EWE /RSH2+RMT4+RWO+RWO3+RTDN /FW+FW3+FWCN /FOSSL

Material type (direction 1):

Masonry, unreinforced

Material technology (direction 1):

Adobe blocks

Material properties (direction 1):

Mud mortar

Material technology (additional, direction 1):

Lateral load-resisting system (direction 1):

Wall

System ductility (direction 1):

Non-ductile

Material type (direction 2):

Masonry, unreinforced

Material technology (direction 2):

Adobe blocks

Material properties (direction 2):

Mud mortar

Material technology (additional, direction 2):

Lateral load-resisting system (direction 2):

Wall

System ductility (direction 2):

Non-ductile

Foundations:

Shallow foundation, with lateral capacity

Plan shape:

Rectangular, solid

Type of Irregularity:

Irregular structure

Building position within a block:

Detached building

Plan structural irregularity - primary:

Torsion eccentricity

Vertical structural irregularity - primary:

No irregularity

Plan structural irregularity - secondary:

No irregularity

Vertical structural irregularity - secondary:

No irregularity

Roof shape:

Pitched with gable ends

Roof covering:

Slate

Roof system material:

Wood

Roof system type:

Wood-based sheets on rafters or purlins

Roof connections:

Roof tie-down not provided

Floor system material:

Wood

Floor system type:

Wood-based sheets on joists or beams

Floor connections:

Floor-wall diaphragm connection not provided

Exterior walls material:

Earth

Date of construction:

Bounds for the date of construction or retro 1850-2012

Number of storeys above the ground:

Exact number of storeys 1

Number of storeys below the ground:

Exact number of storeys 0

Height of the grade above ground floor:

Range of height above grade 0.3-0.5

Slope of the ground (for buildings on slopes):

Slope of the ground 0

Occupancy type - general:

Residential

Occupancy type - detail:

Single dwelling

Country:

Unknown

Region (province, state, etc.):

Central Asia

Summary:

Separate adobe buildings from earthen buildings. It could be reinforced with a mesh or cane.