

GEM Building Taxonomy Report

Adobe house in Nazca (Peru)

Nicola Tarque



Taxonomy string:

DX+PF /EU+ETO /LWAL+DNO /DY+OF /EU+ETO /LWAL+DNO /YAPP:2004 /HEX:1+HBEX:0+HFBET:2.2,2.5 /RES+RES1 /BPC /PLFRO /IRRE /EWE /RSH1+RMTO+RO+RWCN /FE+FWCN /FOSN

Material type (direction 1):

Earth, unreinforced

Material properties (direction 1):

Lateral load-resisting system (direction 1):

Wall

Material type (direction 2):

Earth, unreinforced

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:

Flat

Roof system material:

Roof material, other

Roof connections:

Roof-wall diaphragm connection not provided

Floor system material:

Earthen

Floor connections:

Floor-wall diaphragm connection not provided

Exterior walls material:

Earth

Date of construction:

Approximate date of construction or retrofit 2004

Number of storeys above the ground:

Exact number of storeys 1

Height of the grade above ground floor:

Range of height above grade 2.2-2.5

Occupancy type - general:

Residential

Country:

Peru

Summary:

Material technology (direction 1):

Earth technology, other

Material technology (additional, direction 1):

System ductility (direction 1):

Non-ductile

Material technology (direction 2):

Earth technology, other

Material technology (additional, direction 2):

System ductility (direction 2):

Non-ductile

Plan shape:

Rectangular, with an opening

Building position within a block:

Corner building

Vertical structural irregularity - primary:

Vertical structural irregularity - secondary:

Roof covering:

Roof covering, other

Roof system type:

Floor system type:

Earthen, unknown

Number of storeys below the ground:

Exact number of storeys 0

Slope of the ground (for buildings on slopes):

Unknown slope

Occupancy type - detail:

Single dwelling

Region (province, state, etc.):

Nazca

This is a typical adobe building at the Peruvian coast. The roof is made of straw mat, cane, and mud; sometimes some metal sheets. The lintels are made of reinforced concrete.