

GEM Building Taxonomy Report

Masonry Jack-arch Roof

M. Yekrangnia and A.S. Moghadam



Taxonomy string:

DX /MUR+CLBRS+MOC /LN /DY /MUR+CLBRS+MOC /LN /YPRE:2000's /HBET:1,2+HBEX:0+HFAPP:2.8 /RES /BPD /PLFR / /EWCB /RSH1+RMT7+RM+RM2+RWCN /FM+FWCN /FOSSL

Material type (direction 1):

Masonry, unreinforced

Material properties (direction 1):

Cement mortar

Lateral load-resisting system (direction 1):

No lateral load-resisting system

Material type (direction 2):

Masonry, unreinforced

Material properties (direction 2):

Cement mortar

Lateral load-resisting system (direction 2):

No lateral load-resisting system

Foundations:

Shallow foundation, with lateral capacity

Type of Irregularity:

Unknown structural irregularity

Plan structural irregularity - primary:

Plan structural irregularity - secondary:

Roof shape:

Flat

Roof system material:

Masonry

Roof connections:

Roof-wall diaphragm connection not provided

Floor system material:

Masonry

Floor connections:

Floor-wall diaphragm connection not provided

Exterior walls material:

~~Cement based boards~~ → Masonry

Date of construction:

Latest possible date of construction or retrc 2000's

Number of storeys above the ground:

Range of the number of storeys 1-2

Height of the grade above ground floor:

Approximate height above grade 2.8

Occupancy type - general:

Residential

Country:

Iran

Summary:

Material technology (direction 1):

Fired clay solid bricks

Material technology (additional, direction 1):

System ductility (direction 1):

Material technology (direction 2):

Fired clay solid bricks

Material technology (additional, direction 2):

System ductility (direction 2):

Plan shape:

Rectangular, solid

Building position within a block:

Detached building

Vertical structural irregularity - primary:

Vertical structural irregularity - secondary:

Roof covering:

Wooden and asphalt shingles

Roof system type:

Shallow-arched masonry

Floor system type:

Masonry, 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:

Residential, unknown type

Region (province, state, etc.):

Tehran

This kind of buildings constitutes about 20% of all Iranian rural houses.