

GEM Building Taxonomy Report

Single Storey Timber Housing

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Taxonomy string:

DX /W+WS /LPB /DY /W+WS /LPB /YAPP:< 1970 /HEX:1+HBEX:None+HFAPP:3 - 4 m+HD:Flat /RES+RES1 /BPI /PLFR /IRRE /EWO /RSH3+RMT1+RWO+RWO1+RTDP /FW+FW1+FWCP /FOSSL

Material type (direction 1):

Wood

Material properties (direction 1):

Lateral load-resisting system (direction 1):

Post and beam

Material type (direction 2):

Wood

Material properties (direction 2):

Lateral load-resisting system (direction 2):

Post and beam

Foundations:

Shallow foundation, with lateral capacity

Type of Irregularity:

Regular structure

Plan structural irregularity - primary:

Plan structural irregularity - secondary:

Roof shape:

Pitched and hipped

Roof system material:

Wood

Roof connections:

Roof tie-down present

Floor system material:

Wood

Floor connections:

Floor-wall diaphragm connection present

Exterior walls material:

Material of exterior wall, other

Date of construction:

Approximate date of construction or retrofit < 1970

Number of storeys above the ground:

Exact number of storeys 1

Height of the grade above ground floor:

Approximate height above grade 3 - 4 m

Occupancy type - general:

Residential

Country:

Indonesia

Summary:

Material technology (direction 1):

Solid wood

Material technology (additional, direction 1):

System ductility (direction 1):

Ductility unknown

Material technology (direction 2):

Solid wood

Material technology (additional, direction 2):

System ductility (direction 2):

Ductility unknown

Plan shape:

Rectangular, solid

Building position within a block:

Interior of block

Vertical structural irregularity - primary:

Vertical structural irregularity - secondary:

Roof covering:

Clay or concrete tile

Roof system type:

Wooden beams/trusses and purlins with light roof

Floor system type:

Wood beams/trusses & joists supporting light flooring

Number of storeys below the ground:

Exact number of storeys None

Slope of the ground (for buildings on slopes):

Slope of the ground Flat

Occupancy type - detail:

Single dwelling

Region (province, state, etc.):

West Java

A typical single storey residential units, which were built using simple timber frames, bamboo plaited mats for their walls, clay-tiles for their roofs, and an uplifted floor system, have generally survived from several earthquakes. This residential type was found in the village area in the West Java.