

GEM Building Taxonomy Report

The Modest House Type 21-72
Sugeng Wijanto and Hendri Muljanto



Taxonomy string:

DX+PF /MCF+CBS+MOC /LPB /DY+OF /MCF+CBS+MOC /LPB /YEX:2009 /HEX:1+HBEX:None+HFBET:2.8,3m+HD:Flat /RES+RES1 /BPD /PLFR /IRRE /EWMA /RSH2+RMT1+RME+RME1+RTDP /FN+FWCN /FOSN

Material type (direction 1):

Masonry, confined

Material properties (direction 1):

Cement mortar

Lateral load-resisting system (direction 1):

Post and beam

Material type (direction 2):

Masonry, confined

Material properties (direction 2):

Cement mortar

Lateral load-resisting system (direction 2):

Post and beam

Foundations:

Shallow foundation, with no lateral capacity

Type of Irregularity:

Regular structure

Plan structural irregularity - primary:

Plan structural irregularity - secondary:

Roof shape:

Pitched with gable ends

Roof system material:

Metal

Roof connections:

Roof tie-down present

Floor system material:

No elevated or suspended floor material (single-storey)

Floor connections:

Floor-wall diaphragm connection not provided

Exterior walls material:

Masonry

Date of construction:

Exact date of construction or retrofit 2009

Number of storeys above the ground:

Exact number of storeys 1

Height of the grade above ground floor:

Range of height above grade 2.8-3m

Occupancy type - general:

Residential

Country:

Indonesia

Summary:

Material technology (direction 1):

Concrete blocks, solid

Material technology (additional, direction 1):

System ductility (direction 1):

Ductility unknown

Material technology (direction 2):

Concrete blocks, solid

Material technology (additional, direction 2):

System ductility (direction 2):

Ductility unknown

Plan shape:

Rectangular, solid

Building position within a block:

Detached building

Vertical structural irregularity - primary:

Vertical structural irregularity - secondary:

Roof covering:

Clay or concrete tile

Roof system type:

Metal beams or trusses supporting light roofing

Floor system type:

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

Prototype the modest house, "RS Type 21-72", is the Indonesia government program since 1974 to provide the healthy low-cost housing in the whole country. The land and the building coverage areas are 72 sqm and 21 sqm respectively. The foundation of the building is strip footing made of stone filled with cement mortar. It was built using confined masonry infill, and metal truss with clay-tiles for its roof.