GEM Building Taxonomy Report

Tendinous Walls

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Taxonomy string:

DX /SRC+CIP /LFINF+DUC /DY /SRC+CIP /LFINF+DUC /YAPP:1991 /HEX:2+HFAPP:7 /RES /BP1 /PLFR /IRRE /EWCB /RSH1+RMT2+RME+RTDP /FO+FWCP /FOSN

Material type (direction 1):
Concrete, composite with steel section

Material technology (direction 1):
Cast-in-place concrete

Material properties (direction 1):

Material techonology (additional, direction 1):

Lateral load-resisting system (direction 1):
Infilled frame

System ductility (direction 1):
Ductile

Material type (direction 2):
Concrete, composite with steel section

Material technology (direction 2):
Cast-in-place concrete

Material properties (direction 2):

Material techonology (additional, direction 2):

Lateral load-resisting system (direction 2):
Infilled frame

System ductility (direction 2):
Ductile

Foundations:
Shallow foundation, with no lateral capacity

Plan shape:
Rectangular, solid

Type of Irregularity:
Regular structure

Building position within a block:
One adjacent building

Plan structural irregularity - primary:

Vertical structural irregularity - primary:

Plan structural irregularity - secondary:

Vertical structural irregularity - secondary:

Roof shape:
Flat

Roof covering:
Fibre cement or metal tile

Roof system material:
Metal

Roof system type:
Metal, unknown

Roof connections:
Roof tie-down present

Floor system material:
Floor material, other

Floor system type:

Floor connections:
Floor-wall diaphragm connection present

Exterior walls material:
Cement-based boards

Date of construtions:
Approximate date of construction or retrofit 1991

Number of storeys above the ground:
Exact number of storeys 2

Number of storeys below the ground:
Unknown number of storeys

Height of the grade above ground floor:
Approximate height above grade 7

Slope of the ground (for buildings on slopes):
Unknown slope

Occupancy type - general:
Residential

Occupancy type - detail:
Residential, unknown type

Country:
Colombia

Region (province, state, etc.):

Summary:

Nonconventional system with high ductility that has survived different earthquakes over the years. The system is very cheap and affordable and is very adequate for residential buildings.