

GEM Building Taxonomy Report

Circata System

Wallace Novaes de Carvalho Filho



Taxonomy string:

DX /S+SO+BOL /LDUAL /DY /S+SO /LDUAL / /HEX:1+HBEX:0+HFEX:2,8 /RES+RES2A / /PLFR /IRRE /EWO /RSH1+RMT6+RME+RME1+RWCP /FC+FC1+FWCP /FOSSL

Material type (direction 1):

Steel

Material properties (direction 1):

Bolted connections

Lateral load-resisting system (direction 1):

Dual frame-wall system

Material type (direction 2):

Steel

Material properties (direction 2):

Welded connections

Lateral load-resisting system (direction 2):

Dual frame-wall system

Foundations:

Shallow foundation, with lateral capacity

Type of Irregularity:

Regular structure

Plan structural irregularity - primary:

Plan structural irregularity - secondary:

Roof shape:

Flat

Roof system material:

Metal

Roof connections:

Roof-wall diaphragm connection present

Floor system material:

Concrete

Floor connections:

Floor-wall diaphragm connection present

Exterior walls material:

Material of exterior wall, other

Date of construction:

Year unknown

Number of storeys above the ground:

Exact number of storeys

1

Height of the grade above ground floor:

Exact height above grade

2,8

Occupancy type - general:

Residential

Country:

Brazil

Summary:

Material technology (direction 1):

Steel, other

Material technology (additional, direction 1):

System ductility (direction 1):

Ductility unknown

Material technology (direction 2):

Steel, other

Material technology (additional, direction 2):

System ductility (direction 2):

Ductility unknown

Plan shape:

Rectangular, solid

Building position within a block:

Unknown building position

Vertical structural irregularity - primary:

Vertical structural irregularity - secondary:

Roof covering:

Metal sheets

Roof system type:

Metal beams or trusses supporting light roofing

Floor system type:

Cast-in-place beamless RC floor

Number of storeys below the ground:

Exact number of storeys

0

Slope of the ground (for buildings on slopes):

Unknown slope

Occupancy type - detail:

2 Units (Duplex)

Region (province, state, etc.):

Sao Paulo

Building system made with slab on grade foundation of light weight concrete. Columns in square steel beams, provided with metal U shapes in order to anchor the aerated concrete blocks. Sewage and water systems are external, but hidden, giving good appearance to the construction.

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