

GEM Building Taxonomy Report

Traditional 3 storey stone house with stone roof
Tom Schacher

Picture not available

Taxonomy string:

DX /MUR+STRUB+MOL /LWAL /DY /MUR+STRUB+MOL /LWAL /YAPP:1850 /HAPP:3+HBEX:1+HFAPP:0 /RES+RES2A /BPD /PLFR /IRRE /EWMA /RSH2+RMT5+RO+RTDN /FW+FW1 /FOSN

Material type (direction 1):

Masonry, unreinforced

Material properties (direction 1):

Lime mortar

Lateral load-resisting system (direction 1):

Wall

Material type (direction 2):

Masonry, unreinforced

Material properties (direction 2):

Lime mortar

Lateral load-resisting system (direction 2):

Wall

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:

Roof material, other

Roof connections:

Roof tie-down not provided

Floor system material:

Wood

Floor connections:

Floor-wall diaphragm connection, unknown

Exterior walls material:

Masonry

Date of construction:

Approximate date of construction or retrofit 1850

Number of storeys above the ground:

Approximate number of storeys 3

Height of the grade above ground floor:

Approximate height above grade 0

Occupancy type - general:

Residential

Country:

Switzerland

Summary:

Material technology (direction 1):

Rubble (field stone) or semi-dressed stone

Material technology (additional, direction 1):

System ductility (direction 1):

Ductility unknown

Material technology (direction 2):

Rubble (field stone) or semi-dressed stone

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:

Stone slab

Roof system type:

Floor system type:

Wood beams/trusses & joists supporting light flooring

Number of storeys below the ground:

Exact number of storeys 1

Slope of the ground (for buildings on slopes):

Unknown slope

Occupancy type - detail:

2 Units (Duplex)

Region (province, state, etc.):

Ticino, southern Switzerland

Traditional 3 storey building (8-6m) in loadbearing stone masonry with a heavy pitched stone roof. It is built perpendicularly into a slope with entry doors at each level. The stone roof is supported by timber trusses which are placed on lengthwise beams on top of the longitudinal walls. Between the 2nd and 3rd storey a timber beam is placed in mid-depth of the stone masonry and the floor beams are connected to this beam.