

GEM Building Taxonomy Report

Half-timbered house in the "Border triangle" (France, Switzerland, Germany)

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Taxonomy string:

DX /W+WWD /LFM+DUC /DY /W+WWD /LFM+DUC /YBET:1500,2010 /HBET:2,5+HBAPP:1+HFAPP:3m+HD:0 /RES+RES1 /BPI /PLFR /IRRE /EWW /RSH2+RMT1+RWO+RWO2 /FW+FW3 /

Material type (direction 1):

Wood

Material properties (direction 1):

Lateral load-resisting system (direction 1):

Moment frame

Material type (direction 2):

Wood

Material properties (direction 2):

Lateral load-resisting system (direction 2):

Moment frame

Foundations:

Unknown foundation system

Type of Irregularity:

Regular structure

Plan structural irregularity - primary:

Plan structural irregularity - secondary:

Roof shape:

Pitched with gable ends

Roof system material:

Wood

Roof connections:

Roof-wall diaphragm connection unknown

Floor system material:

Wood

Floor connections:

Floor-wall diaphragm connection, unknown

Exterior walls material:

Wood

Date of construction:

Bounds for the date of construction or retro 1500-2010

Number of storeys above the ground:

Range of the number of storeys 2-5

Height of the grade above ground floor:

Approximate grade height 3m

Occupancy type - general:

Residential

Country:

Switzerland

Observations:

Material technology (direction 1):

Wattle and daub

Material technology (additional, direction 1):

System ductility (direction 1):

Ductile

Material technology (direction 2):

Wattle and daub

Material technology (additional, direction 2):

System ductility (direction 2):

Ductile

Plan shape:

Rectangular, solid

Building position within a block:

Interior of block

Vertical structural irregularity - primary:

Vertical structural irregularity - secondary:

Roof covering:

Tile (clay, concrete)

Roof system type:

Wooden roof structure supporting a heavy flat or domed roof

Floor system type:

Wood-based sheets on joists or beams

Number of storeys below the ground:

Approximate number of storeys 1

Slope of the ground (for buildings on slopes):

Slope of the ground 0

Occupancy type - detail:

Single dwelling

Region:

Europe

This type of construction can be found in both the urban and rural areas of Germany, Switzerland, northern France, and England. The main load-bearing structure is timber frame. Brick masonry, adobe, or wooden planks are used as infill materials depending on the region.