

GEM Building Taxonomy Report

Historical Masonry Buildings in Portuguese City Centres
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Taxonomy string:

DX+PF /MUR+STRUB+SPLI /LWAL+DNO /DY+OF /MUR+STRUB+SPLI /LWAL+DNO //HBET:1,4+HBEX:0+HFBET:2.5,15+HD:Very rarely, and when exists is limited /MIX+MIX1 /BPI /PLFR /IRRE /EWMA /RSH2+RMT1+RWO+RWO1+RWCN /FW+FW1+FWCN /FOSN

Material type (direction 1):

Masonry, unreinforced

Material technology (direction 1):

Rubble (field stone) or semi-dressed stone

Material properties (direction 1):

Limestone

Material technology (additional, direction 1):

Lateral load-resisting system (direction 1):

Wall

System ductility (direction 1):

Non-ductile

Material type (direction 2):

Masonry, unreinforced

Material technology (direction 2):

Rubble (field stone) or semi-dressed stone

Material properties (direction 2):

Limestone

Material technology (additional, direction 2):

Lateral load-resisting system (direction 2):

Wall

System ductility (direction 2):

Non-ductile

Foundations:

Shallow foundation, with no lateral capacity

Plan shape:

Rectangular, solid

Type of Irregularity:

Regular structure

Building position within a block:

Interior of block

Plan structural irregularity - primary:

Vertical structural irregularity - primary:

Plan structural irregularity - secondary:

Vertical structural irregularity - secondary:

Roof shape:

Pitched with gable ends

Roof covering:

Clay or concrete tile

Roof system material:

Wood

Roof system type:

Wooden beams/trusses and purlins with light roof

Roof connections:

Roof-wall diaphragm connection not provided

Floor system material:

Wood

Floor system type:

Wood beams/trusses & joists supporting light flooring

Floor connections:

Floor-wall diaphragm connection not provided

Exterior walls material:

Masonry

Date of construction:

Year unknown

Number of storeys above the ground:

Range of the number of storeys 1-4

Number of storeys below the ground:

Exact number of storeys 0

Height of the grade above ground floor:

Range of height above grade 2.5-15

Slope of the ground (for buildings on slopes):

Slope of the ground Very rare

Occupancy type - general:

Mixed use

Occupancy type - detail:

Mostly residential and commercial

Country:

Portugal

Region (province, state, etc.):

Coimbra & Seixal

Summary:

The type of building reported here is representative of the traditional Portuguese urban construction. All the features reported were observed in-situ from two extensive survey campaigns carried out in the old city centres of Coimbra and Seixal.