

GEM Building Taxonomy Report

WWII Quansit Huts

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Taxonomy string:

DX /ME+MEO /LWAL+DNO /DY /ME+MEO /LO /YEX:1978 /HEX:1+HBEX:0+HFEX:12+HD:0 /IND+IND2 /BP1 /PLFRO /IRRE /EWME /RSH7+RMT6+RME /FC+FC1+FWCP /FOSSL

Material type (direction 1):

Metal (except steel)

Material technology (direction 1):

Metal, other

Material properties (direction 1):

Material technology (additional, direction 1):

Lateral load-resisting system (direction 1):

Wall

System ductility (direction 1):

Non-ductile

Material type (direction 2):

Metal (except steel)

Material technology (direction 2):

Metal, other

Material properties (direction 2):

Material technology (additional, direction 2):

Lateral load-resisting system (direction 2):

Other lateral load-resisting system

System ductility (direction 2):

Ductility unknown

Foundations:

Shallow foundation, with lateral capacity

Plan shape:

Rectangular, with an opening

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:

Curved

Roof covering:

Metal sheets

Roof system material:

Metal

Roof system type:

Metal, unknown

Roof connections:

Roof-wall diaphragm connection unknown

Floor system material:

Concrete

Floor system type:

Cast-in-place beamless RC floor

Floor connections:

Floor-wall diaphragm connection present

Exterior walls material:

Metal

Date of construction:

Exact date of construction or retrofit 1978

Number of storeys above the ground:

Exact number of storeys 1

Number of storeys below the ground:

Exact number of storeys 0

Height of the grade above ground floor:

Exact height above grade 12

Slope of the ground (for buildings on slopes):

Slope of the ground 0

Occupancy type - general:

Industrial

Occupancy type - detail:

Light industrial

Country:

United States

Region (province, state, etc.):

California

Summary:

Recycled 1940s quansit huts are commonly sold by US military. Designed much stronger than modern half round tube buildings. The sheeting is a rigid frame and most likely ductile. No need for end shear walls. Newer half round tube shapes require end shear walls. Without vertical walls interior equipment is usually independent of building.