

## SECTION E — FIXED CONSTRUCTIONS

### E04 BUILDING

#### E04H BUILDINGS OR LIKE STRUCTURES FOR PARTICULAR PURPOSES; SWIMMING OR SPLASH BATHS OR POOLS; MASTS; FENCING; TENTS OR CANOPIES, IN GENERAL (foundations E02D) [4]

##### Note(s)

1. This subclass covers
  - primarily the layout of buildings as a whole;
  - details which are peculiar to types of buildings, or buildings for special purposes, specified in the groups;
  - canopies in general and canopies similar in construction to tents.
2. This subclass does not cover canopies having special application, which are covered by the relevant place, e.g. protecting chairs against the weather A47C 7/66, bed canopies A47C 29/00, sun shades or awnings for buildings E04F 10/00.
3. In this subclass, the following terms are used with the meanings indicated:
  - "buildings" does not exclude engineering structures and other constructions;
  - "tent" means a tent or canopy having a supporting means, e.g. frame and a flexible cover.

##### Subclass index

##### BUILDINGS

|   |            |
|---|------------|
| For dwelling or office purposes.....                                      | 1/00       |
| For public purposes.....  | 3/00       |
| For industrial or agricultural purposes; for parking.....                 | 5/00, 6/00 |
| SWIMMING OR SPLASH BATHS OR POOLS.....                                    | 4/00       |
| CONTAINERS.....   | 7/00       |
| BUILDINGS AFFORDING SPECIAL PROTECTION.....                               | 9/00       |
| TOWERS, MASTS, CHIMNEY STACKS.....  | 12/00      |
| MONUMENTS, TOMBS.....   | 13/00      |
| BUILDINGS FOR COMBINATIONS OF DIFFERENT PURPOSES, DRIVE-IN BUILDINGS..... | 14/00      |
| TENTS, CANOPIES.....  | 15/00      |
| FENCING, ENCLOSURES, CORRALS.....   | 17/00      |

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|-------------|--|-------------|--|
| <b>1/00</b> | <b>Buildings or groups of buildings for dwelling or office purposes; General layout, e.g. modular co-ordination, staggered storeys</b> (E04H 3/00 takes precedence; buildings for two or more purposes, drive-in buildings E04H 14/00; building construction in general E04B 1/00)                     | <b>3/02</b> | • Hotels; Motels; Coffee-houses; Restaurants; Shops; Department stores   |
| <b>1/02</b> | • Dwelling houses; Buildings for temporary habitation (small erections for limited occupation E04H 1/12)   | <b>3/04</b> | • • Restaurants or shops having arrangements for self-service (paying counters A47F 9/02; furniture or installations specially adapted for supermarkets A47F 10/00; transport aspects B65G; coin-freed apparatus G07F) |
| <b>1/04</b> | • • Apartment houses arranged in two or more levels  | <b>3/06</b> | • Museums; Library buildings   |
| <b>1/06</b> | • Office buildings; Banks (E04H 1/12 takes precedence; furniture or fittings for shops, storehouses, or the like A47F)   | <b>3/08</b> | • Hospitals, infirmaries, or the like; Schools; Prisons  |
| <b>1/12</b> | • Small buildings or other erections for limited occupation, erected in the open air or arranged in buildings, e.g. kiosks, waiting shelters for bus stops or for filling stations, roofs for railway platforms, watchmen's huts, dressing cubicles (movable screens as household equipment A47G 5/00) | <b>3/10</b> | • for meetings, entertainments, or sports  |
| <b>1/14</b> | • • Telephone cabinets   | <b>3/12</b> | • • Tribunets, grandstands or terraces for spectators (auditoriums E04H 3/30; chairs, stools, benches A47C) [2]  |
| <b>3/00</b> | <b>Buildings or groups of buildings for public or similar purposes; Institutions, e.g. infirmaries, prisons</b> (portions of buildings for individual occupation, e.g. cubicles, E04H 1/00; structures covering a large free area E04B 1/342)  | <b>3/14</b> | • • Gymnasiums; Other sporting buildings (tribunes E04H 3/12)  |
|             |  | <b>3/16</b> | • • • for swimming (swimming or splash baths or pools E04H 4/00) [5]   |
|             |  | <b>3/22</b> | • • Theatres; Concert halls; Studios for broadcasting, cinematography, television or similar purposes (drive-in buildings E04H 14/00; equipment for theatres or concert halls A63J) [2]                                |
|             |  | <b>3/24</b> | • • • Constructional features of stages  |
|             |  | <b>3/26</b> | • • • • Revolving stages; Stages able to be lowered (devices for raising or lowering persons A63J 5/12)  |

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- 3/28 • • • • Shiftable or portable platforms
- 3/30 • • • Constructional features of auditoriums (chairs, stools, benches A47C; building details providing acoustical effects E04B 1/99)
- 4/00 Swimming or splash baths or pools** (wave-producers for baths A47K 3/10; separation B01D; treatment of water C02F; wave-producing pumps F04D 35/00) [5]
  - 4/02 • formed in situ [5]
  - 4/04 • prefabricated or composed of prefabricated elements [5]
  - 4/06 • Safety devices; Coverings for baths [5]
  - 4/08 • • Coverings consisting of rigid elements [5]
  - 4/10 • • Coverings of flexible material [5]
  - 4/12 • Devices or arrangements for circulating water [5]
  - 4/14 • Parts, details or accessories not otherwise provided for [5]
  - 4/16 • • specially adapted for cleaning (cleaning devices peculiar to vessels B63B 59/00) [5]
- 5/00 Buildings or groups of buildings for industrial or agricultural purposes** (building construction in general E04B 1/00)
  - 5/02 • Buildings or groups of buildings for industrial purposes, e.g. for power-plants, factories (buildings forming part of cooling plants E04H 5/10; building structures for parking vehicles E04H 6/00)
  - 5/04 • • Transformer houses; Substations or switchgear houses [5]
  - 5/06 • • Pits or building structures for inspection or services (manhole shafts or other inspection chambers in general E02D 29/12)
  - 5/08 • Buildings or groups of buildings for agricultural purposes (silos E04H 7/22; manure storage places A01C 3/02; greenhouses A01G 9/14)
  - 5/10 • Buildings forming part of cooling plants
  - 5/12 • • Cooling towers (towers in general E04H 12/00; cooling equipment F28)
- 6/00 Buildings for parking cars, rolling-stock, aircraft, vessels, or like vehicles, e.g. garages** (tents for use as garages E04H 15/00; bicycle stands B62H; storing of vessels on land B63C 15/00; construction of ground-supported surfaces E01C; marking of parking areas on the ground E01F 9/00; building construction in general E04B 1/00)
  - 6/02 • Small garages, e.g. for one or two cars (attached to, or supported by, the vehicle B62D; prefabricated and with undivided interior E04B 1/343)
  - 6/04 • • wheeled, hinged, foldable, telescopic, swinging, or otherwise movable (transportable or collapsible buildings in general E04B 1/343)
  - 6/06 • • with means for shifting or lifting vehicles
  - 6/08 • Garages for many vehicles
  - 6/10 • • without mechanical means for shifting or lifting vehicles, e.g. with helically-arranged fixed ramps, with movable ramps
  - 6/12 • • with mechanical means for shifting or lifting vehicles
  - 6/14 • • • with endless conveyor chains having load-carrying parts moving vertically, e.g. paternoster lifts
  - 6/16 • • • Garages shaped as a wheel or drum rotatable about a horizontal axis
  - 6/18 • • • with means for transport in vertical direction only or independently in vertical and horizontal directions (E04H 6/14 takes precedence)
- 6/20 • • • • characterised by use of conveyor chains or rotatable rollers for horizontal transport
- 6/22 • • • • characterised by use of movable platforms for horizontal transport
- 6/24 • • • • characterised by use of dollies for horizontal transport
- 6/26 • • • • characterised by use of tiltable floors or floor sections; characterised by use of movable ramps
- 6/28 • • • • characterised by use of turntables or rotary rings for horizontal transport
- 6/30 • • • with means for transport in horizontal direction only
- 6/32 • • • • characterised by use of conveyor chains or rotatable rollers
- 6/34 • • • • characterised by use of movable platforms
- 6/36 • • • • characterised by use of freely-movable dollies
- 6/38 • • • • characterised by use of tiltable floors or floor sections
- 6/40 • • • • characterised by use of turntables or rotary rings
- 6/42 • Devices or arrangements peculiar to garages, not covered elsewhere, e.g. securing devices, safety devices
- 6/44 • for storing aircraft (structures covering a large free area E04B 1/342)
- 7/00 Construction or assembling of bulk storage containers employing civil engineering techniques in situ or off the site** (tower aspects E04H 12/00; storage aspects, e.g. floating roofs, sealing means, filling or discharging means B65D, B65G, F17B, F17C; foundations E02D 27/38) [2]
  - 7/02 • Containers for fluids or gases; Supports therefor (arrangements or adaptations of tanks for water supply E03B 11/00) [2]
  - 7/04 • • mainly of metal
  - 7/06 • • • with vertical axis
  - 7/14 • • • ball-shaped
  - 7/16 • • • with horizontal axis
  - 7/18 • • mainly of concrete, e.g. reinforced concrete, or other stone-like material
  - 7/20 • • • Prestressed constructions
  - 7/22 • Containers for fluent solids, e.g. silos or bunkers; Supports therefor [2]
  - 7/24 • • Constructions, with or without perforated walls, depending on the use of specified materials
  - 7/26 • • • mainly of concrete, e.g. reinforced concrete, or other stone-like material
  - 7/28 • • • • composed of special building elements
  - 7/30 • • • mainly of metal
  - 7/32 • • • mainly of wood
- 9/00 Buildings, groups of buildings, or shelters, adapted to withstand or provide protection against, abnormal external influences, e.g. war-like action, earthquake, extreme climate** (floating buildings B63B; foundation aspects E02D; building constructions in general E04B; bearings or like supports allowing movement E04B 1/36; special details regarding insulation or other protection E04B 1/62; supporting structures for endangered or damaged existing buildings or parts thereof E04G 23/04; doors, windows E06B 5/00; air-conditioning, ventilation F24F; camouflage F41H 3/00; cells or rooms shielded against dangerous radiation G21F 7/00)

- 9/02 • withstanding earthquake or sinking of ground (foundations E02D 27/34)
- 9/04 • against air-raid or other war-like actions (respiratory apparatus A62B)
- 9/06 • • Structures arranged in, or forming part of, buildings
- 9/08 • • • Structures arranged underneath buildings, e.g. air-raid shelters
- 9/10 • • Independent shelters; Arrangement of independent splinter-proof walls
- 9/12 • • • entirely underneath the level of the ground, e.g. air-raid galleries (tunnels, galleries E21D)
- 9/14 • against other dangerous influences, e.g. tornadoes, floods
- 9/16 • against adverse conditions, e.g. extreme climate, pests
- 12/00 Towers; Masts, poles; Chimney stacks; Water-towers; Methods of erecting such structures** (cooling towers E04H 5/12; supports for road signs E01F 9/011; foundation piles E02D 5/22; foundations for masts, poles, or chimneys E02D 27/42; structural elongated members in general E04C 3/00; fixed climbing irons E06C 9/04; derricks for oil drilling E21B 15/00) [6]
- 12/02 • Structures made of specified materials (E04H 12/16, E04H 12/18 take precedence)
- 12/04 • • of wood
- 12/06 • • • Truss-like structures
- 12/08 • • of metal
- 12/10 • • • Truss-like structures
- 12/12 • • of concrete or other stone-like material, with or without internal or external reinforcement, e.g. with metal coverings, with permanent form elements
- 12/14 • • • Truss-like structures
- 12/16 • Prestressed structures
- 12/18 • movable or with movable sections, e.g. rotatable, telescopic (rotary buildings E04B 1/346)
- 12/20 • Side-supporting means therefor, e.g. using guy ropes, struts (ground anchors E02D 5/80; fastening means for cables or ropes F16G 11/00)
- 12/22 • Sockets or holders for poles or posts
- 12/24 • Cross-arms
- 12/26 • Winding towers for mines (elevators B66B)
- 12/28 • Chimney stacks, e.g. free-standing, or similar ducts (foundations E02D 27/42; chimneys as part of buildings E04F 17/02; connections between furnace and smoke stack, chimney equipment F23J)
- 12/30 • Water-towers (tanks B65D 88/00; use of high-level tanks E03B 11/12)
- 12/32 • Flagpoles (flags, banners, mountings therefor G09F 17/00)
- 12/34 • Arrangements for erecting or lowering towers, masts, poles, chimney stacks, or the like [6]
- 13/00 Monuments; Tombs; Burial vaults; Columbaria** (sculpture or other artistic features B44)
- 14/00 Buildings for combinations of different purposes not covered by any single one of main groups E04H 1/00-E04H 13/00 of this subclass, e.g. for double purpose** (E04H 3/02, E04H 9/06 take precedence); **Buildings of the drive-in type**
- 15/00 Tents or canopies, in general** [4]
- 15/02 • Tents combined or specially associated with other devices [4]
- 15/04 • • suspended type, e.g. from trees, from cantilever supports (supporting frames E04H 15/34) [4]
- 15/06 • • Tents at least partially supported by vehicles [4]
- 15/08 • • • Trailer awnings or the like [4]
- 15/10 • • Heating, lighting, or ventilating (for heating, lighting, or ventilating devices *per se*, *see* the relevant classes, e.g. F21, F24) [4]
- 15/12 • • • Heating [4]
- 15/14 • • • Ventilating [4]
- 15/16 • • • • of tent roofs [4]
- 15/18 • Tents having plural sectional covers, e.g. pavilions, vaulted tents, marquees, circus tents (inflatable E04H 15/20); Plural tents, e.g. modular [4]
- 15/20 • inflatable, e.g. shaped, strengthened, or supported by fluid pressure (connection of valves to inflatable elastic bodies B60C 29/00; inflatable forms for making walls, floors, ceilings or roofs *in situ* E04G 11/04) [4]
- 15/22 • • supported by air pressure inside the tent [4]
- 15/24 • cone shaped, e.g. teepees [4]
- 15/26 • Center-pole supported tents (umbrella type E04H 15/28) [4]
- 15/28 • Umbrella type tents [4]
- 15/30 • convertible, e.g. from one type tent to another type tent, from tent to canopy, from tent cover into diverse article (sacks or packs convertible into tents A45F 4/04; coats or capes convertible into tent coverings A45F 4/14) [4]
- 15/32 • Parts, components, construction details, accessories, interior equipment, specially adapted for tents, e.g. guy-line equipment, skirts, thresholds [4]
- 15/34 • • Supporting means, e.g. frames [4]
- 15/36 • • • arch-shaped type (E04H 15/42 takes precedence) [4]
- 15/38 • • • • expansible, e.g. extensible [4]
- 15/40 • • • • flexible [4]
- 15/42 • • • external type, e.g. frame outside of cover [4]
- 15/44 • • • collapsible, e.g. breakdown type (E04H 15/42 takes precedence; building structures having collapsible parts in general E04B 1/343) [4]
- 15/46 • • • • telescoping and foldable [4]
- 15/48 • • • • foldable, i.e. having pivoted or hinged means (E04H 15/46 takes precedence) [4]
- 15/50 • • • • • lazy-tongs type [4]
- 15/52 • • • • • parallelogram type [4]
- 15/54 • • Covers of tents or canopies (ventilated tent roofs E04H 15/16) [4]
- 15/56 • • Floors [4]
- 15/58 • • Closures; Awnings; Sunshades [4]
- 15/60 • • Poles [4]
- 15/62 • • Pegs, stakes or the like [4]
- 15/64 • • Tent or canopy cover fastenings [4]
- 17/00 Fencing, e.g. fences, enclosures, corrals** (features peculiar to electrified fences A01K 3/00, H05C; means for allowing passage through fences, barriers, or the like E06B 11/00)
- 17/02 • Wire fencing, e.g. made of wire mesh (E04H 17/14 takes precedence; working or processing of wire B21F, e.g. making wire nets B21F 27/00)
- 17/04 • • characterised by the use of specially adapted wire, e.g. barbed wire [1, 7]
- 17/06 • • Parts for wire fences

## E04H

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| 17/08 | • • • Anchoring means therefor, e.g. specially-shaped parts entering the ground; Struts or the like (for towers or masts E04H 12/20; sockets for posts E04H 12/22) | 17/18 | • • • Corrals, i.e. easily transportable or demountable enclosures   |
| 17/10 | • • characterised by the way of connecting wire to the posts; Droppers   | 17/20 | • • Posts therefor   |
| 17/12 | • • • the wire being placed in slots, grooves, or the like   | 17/22 | • • • Anchoring means therefor, e.g. specially-shaped parts entering the ground; Struts or the like (for towers or masts E04H 12/20; sockets for posts E04H 12/22) |
| 17/14 | • Fences constructed of rigid elements, e.g. with additional wire fillings or with posts   | 17/24 | • • Connections for attaching additional wire to frames, posts or railings   |
| 17/16 | • • using prefabricated panel-like elements, e.g. wired frames   | 17/26 | • Devices for erecting or removing fences  |